

TA-F333ESR/F730ES

SERVICE MANUAL

AEP Model
UK Model

TA-F730ES

E Model

TA-F333ESR



photo : TA-F730ES

SPECIFICATIONS

| Item | Condition | | Data | |
|--|--|-------------|--|----------------------|
| Continuous RMS power outut (both channels driven simultaneously) | 4 ohms, 20 Hz-20 kHz THD 0.008% | UK, E model | 145 W + 145 W (THD 0.008%) (DIN: 185 W + 185 W) | |
| | 6 ohms, 20 Hz-20 kHz THD 0.006% | UK, E model | 125 W + 125 W (DIN: 150 W + 150 W) | |
| | | AEP model | 120 W + 120 W (DIN: 140 W + 140 W) | |
| | 8 ohms, 20 Hz-20 kHz THD 0.004% | UK, E model | 110 W + 110 W (DIN: 130 W + 130 W) | |
| | | AEP model | 105 W + 105 W (DIN: 115 W + 115 W) | |
| Power band width (IHF) | 8 ohms, THD 0.02% | | 10 Hz - 100 kHz at 50 W | |
| Dynamic headroom ('78 IHF) | 4 ohms | | 3 dB | |
| | 8 ohms | | 2 dB | |
| Total harmonic distortion | 8 ohms, at 10 watt output | | 0.002% | |
| Intermodulation (IM) distortion 60 Hz: 7 kHz = 4:1 | 4 ohm, at rated output | | 0.008% | |
| | 6 ohms at rated output | | 0.006% | |
| | 8 ohms at rated output | | 0.004% | |
| Damping factor | 8 ohms, 1 kHz | | 100 | |
| Residual noise | network A | | less than 115µV | |
| Frequency response | PHONO MM | | RIAA equalization curve ±0.2 dB | |
| | TUNER, CD, TAPE 1, 2, 3, DIRECT IN | | 2 Hz - 200 kHz $\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$ dB | |
| Input sensitivity | PHONO | MC | 3 ohms | 0.17 mV, 100 ohms |
| | | | 40 ohms | 0.17 mV, 1 kohm |
| | | MM | 2.5 mV, 50 kohms | |
| | TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN | | 150 mV, 50 kohms | |

— Continued on page 2 —

INTEGRATED STEREO AMPLIFIER
SONY®



TA-F333ESR/F730ES

| Item | Condition | | Data |
|--------------------------|--|----|--|
| S/N (network) | PHONO | MC | 68 dB 76 dB* (A) |
| | | MM | 80 dB 87 dB* (A) |
| *78 (IHF) | TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN | | 84 dB 105 dB* (A) |
| Output voltage impedance | REC OUT 1, 2, 3 | | 150 mV, 1 kohm |
| | ADAPTOR OUT | | PREOUT 1.0 V, 100 ohms |
| | HEADPHONES | | 25 miliwatts (at 8 ohms) Accepts low and high impedance headphones. |
| Tone controls | BASS, at 100 Hz | | +4 -5.5 dB (turnover frq. 200 Hz) |
| | | | +6 -7 dB (turnover frq. 400 Hz) |
| | TREBLE, at 10 kHz | | +7 -8 dB (frq. 3 kHz) |
| | | | +4 -5 dB (frq. 6 kHz) |
| SUBSONIC filter | — | | 6 dB/octave attenuation below |

General

System Preamplifier section: Low-noise high gain NFB type equalizer amplifier, passive type direct tone control
Power amplifier section: Pure-complementary SEPP power amplifier

Power requirements

AEP model: 220 V AC, 50 Hz
U K model: 240 V AC, 50 Hz
E model: 120 V, 220 V or 240 V AC adjustable, 50/60 Hz

Power consumption

AEP model: 260W
UK model: 800W
E model: 370W

AC outlet

AEP, UK model: 1 switched, 100watts max.
E model: 1 switched, 1 unswitched, 100 watts each

Dimensions

AEP, E model: Approx. 470 x 166 x 436 mm (w/h/d)
(18 1/2 x 6 5/8 x 17 1/4 inches)
U K model: Approx. 430 x 165 x 435 mm (w/h/d)
(18 1/2 x 6 1/2 x 17 1/4 inches)

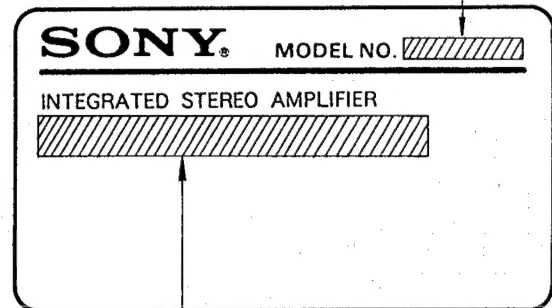
Weight

AEP, E model: Approx. 21.2 kg (46 lbs 12 oz) net
UK model: Approx. 19.9 kg (43 lbs 14 oz) net

MODEL IDENTIFICATION

— Specification Label —

AEP, UK model: TA-F730ES
E model: TA-F333ESR



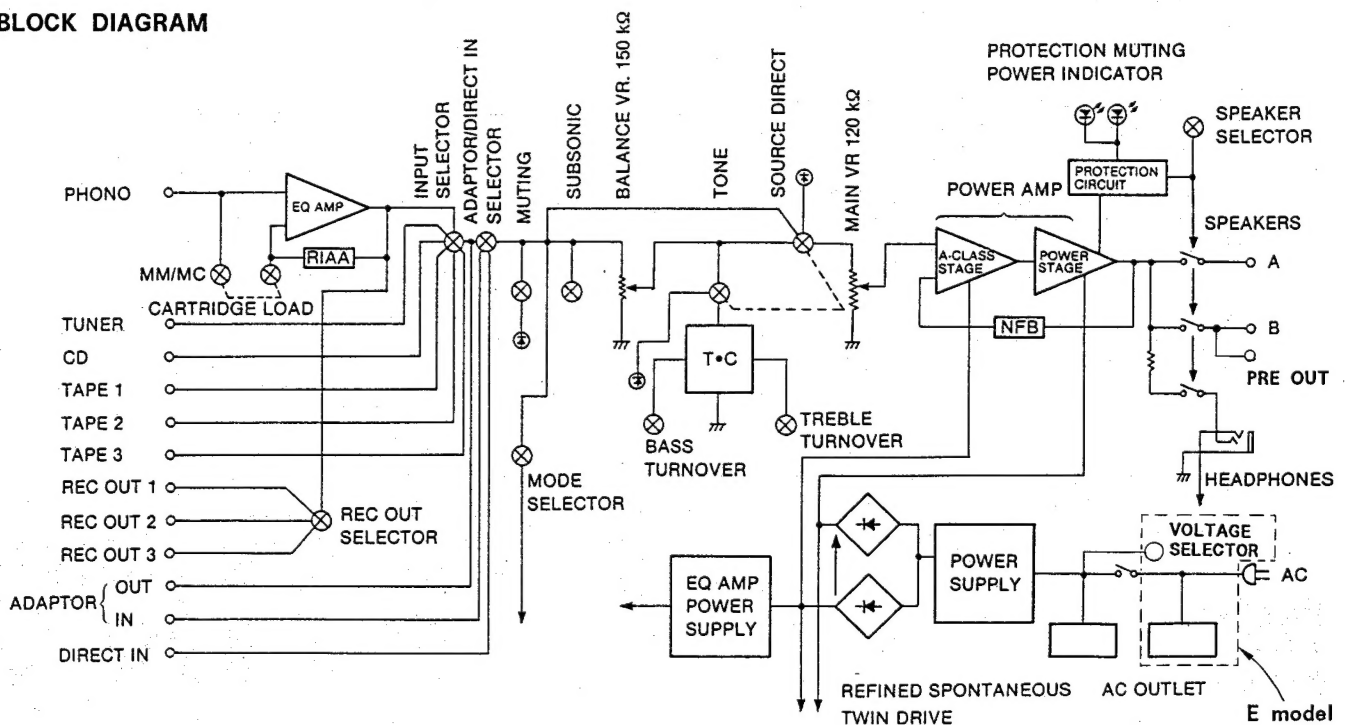
AEP model: AC220V~50/60Hz 260W

UK model: AC240V~50/60Hz 800W

West Germany model: AC220V 50/60Hz

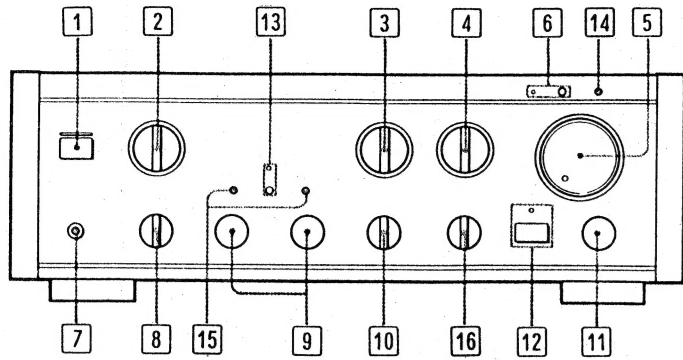
E model: AC120/220/240V~50/60Hz 370W

BLOCK DIAGRAM



SECTION 1
GENERAL

Function of Controls



- 1 POWER switch and power/standby indicator**
Immediately after turning ON the power, the standby indicator lights in red as the built-in muting circuit activates.
When the amplifier stays in a stable operating condition, the indicator lights in green.
The indicator lights in red when the unit detects shorting of circuit of the speaker outputs or in case of short-circuit of the inputs of DC components.
In such a case, disconnect the power source and check the connected components and speaker systems.

2 SPEAKERS selector
Select speaker system A or B, or both.
To use power amplifier or active speaker system connected to the PRE OUT jacks, set the selector to B/ PRE OUT
For headphone monitoring only, set the selector to OFF.

3 ADAPTOR/DIRECT IN switch
Set to NORMAL to select program source by INPUT SELECTOR. To listen to a program source processed through adaptor (graphic equalizer, for example) connected to ADAPTOR jacks, set the selector to ADAPTOR.
To listen to a program source connected to DIRECT IN jacks, set it to DIRECT IN.
Note that selecting ADAPTOR has no effect upon the signals output through the REC OUT jacks.

4 INPUT SELECTOR
Selects the desired program source.

5 ATTENUATOR knob
Regulates the sound level.

6 MUTING switch and indicator
Generally, keep the switch released (OFF).
Depress the switch to reduce the sound level by 20 dB. (Output voltage becomes 1/10.)
- 7 HEADPHONES jack (stereo phone jack)**

8 MODE selector
STEREO: For listening to a stereo program.
MONO: For listening to a monaural program.

9 BASS and TREBLE controls

10 REC OUT SELECTOR
Selects the program source sent to the REC OUT jacks (rear panel).

11 BALANCE control
Controls the sound level of left and right speakers.

12 SOURCE DIRECT switch and indicator
Depress the switch. The red indicator lights and the circuits of the tone control, subsonic filter switch balance control and mode switch are disengaged without regard to the setting of the switches.
When this switch is activated, the indicator of the TONE switch does not light.

13 TONE switch and indicator
Depress the switch to activate the tone control circuit. Red indicator lights.

14 SUBSONIC filter switch
Depress the switch to reduce unwanted noise components of less than 15 Hz, which cause modulation noise.

15 TURNOVER frequency selection switches
Switch the turnover frequency.

16 CARTRIDGE LOAD selector
Set the selector according to your cartridge.
MM: For moving-magnet type cartridge
MC: For moving-coil type cartridge
40 Ω: For a cartridge with an impedance of 40 ohms or more.
3 Ω: For a cartridge with an impedance of 3 ohms to 40 ohms.

The selection of program source

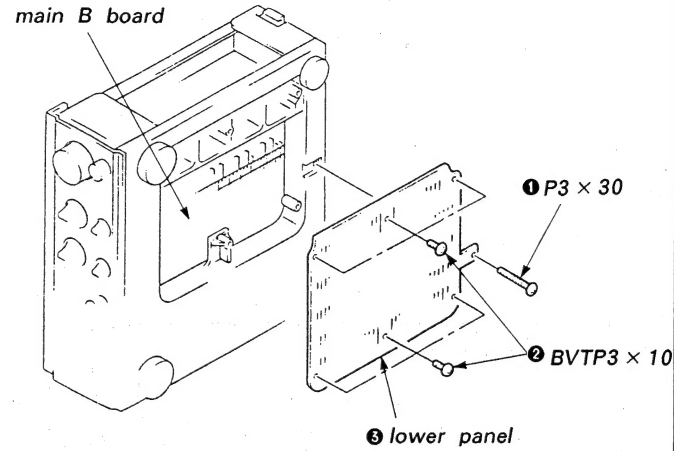
| Program source | INPUT SELECTOR | ADAPTOR/DIRECT IN switch |
|--|------------------------|--------------------------|
| For listening to record program** | PHONO | NORMAL |
| For listening to FM or AM (MW or LW) program | TUNER | NORMAL |
| For listening to CD | CD | NORMAL |
| For listening to taped program connected to TAPE 1 input jacks | TAPE 1 | NORMAL |
| For listening to taped program connected to TAPE 2 input jacks | TAPE 2 | NORMAL |
| For listening to taped program connected to TAPE 3 input jacks | TAPE 3 | NORMAL |
| For listening to program source connected to DIRECT IN jacks | — | DIRECT IN |
| For listening to program source processed through adaptor | Desired program source | ADAPTOR |

** Set the CARTRIDGE LOAD selector according to the cartridge being used.

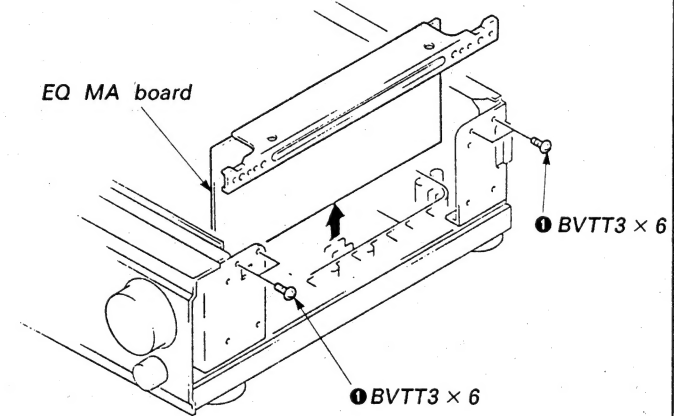
SECTION 2
DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.

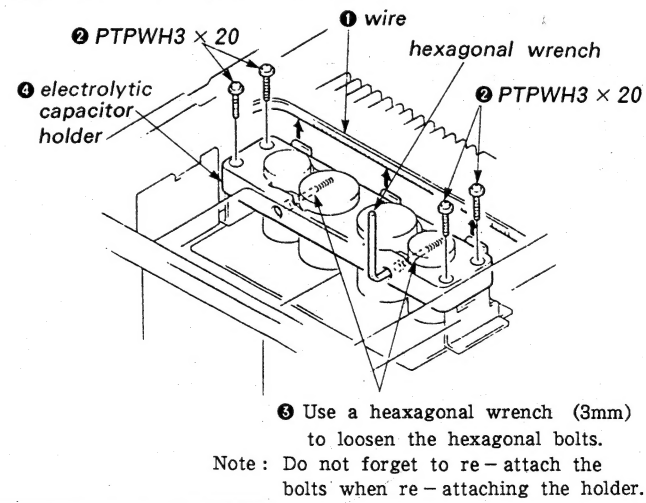
MAIN B BOARD INSPECTION



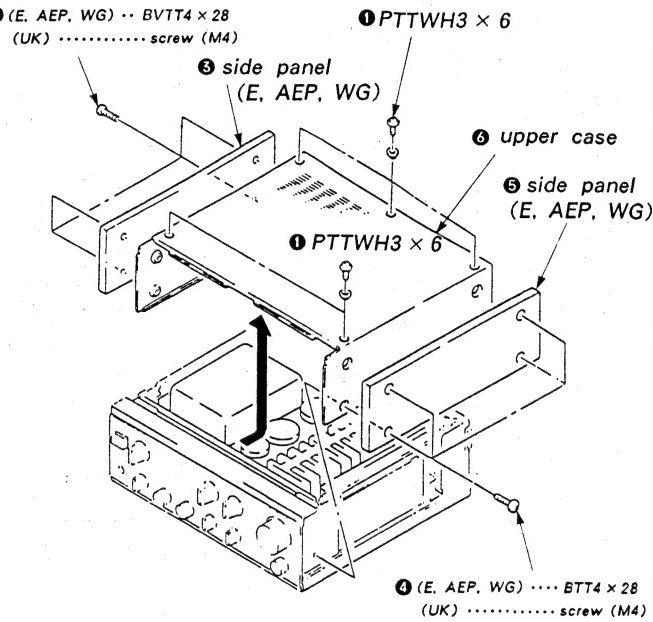
EQ MA BOARD INSPECTION



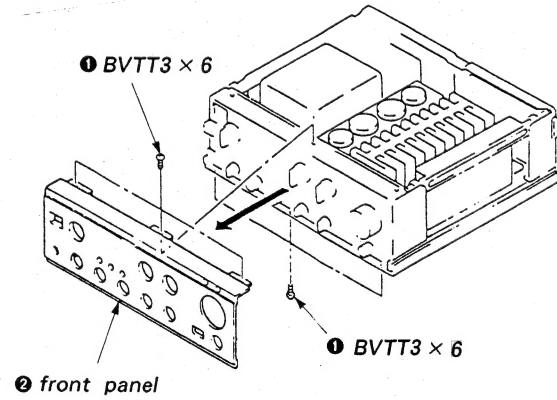
ELECTROLYTIC CAPACITOR HOLDER



CASE

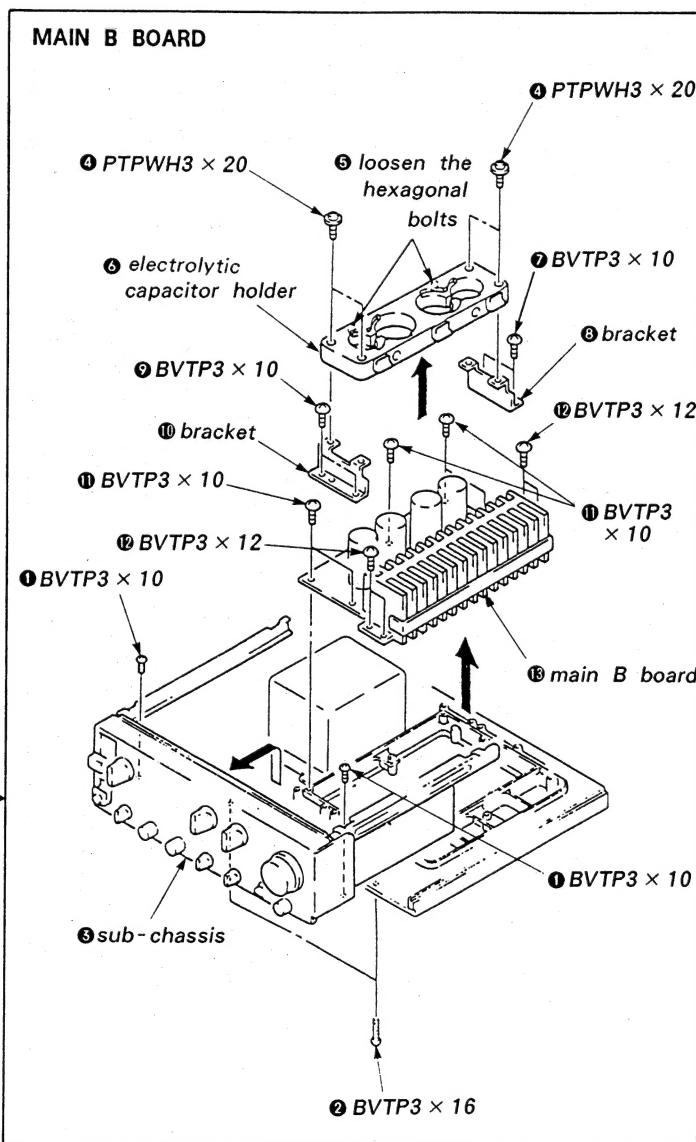
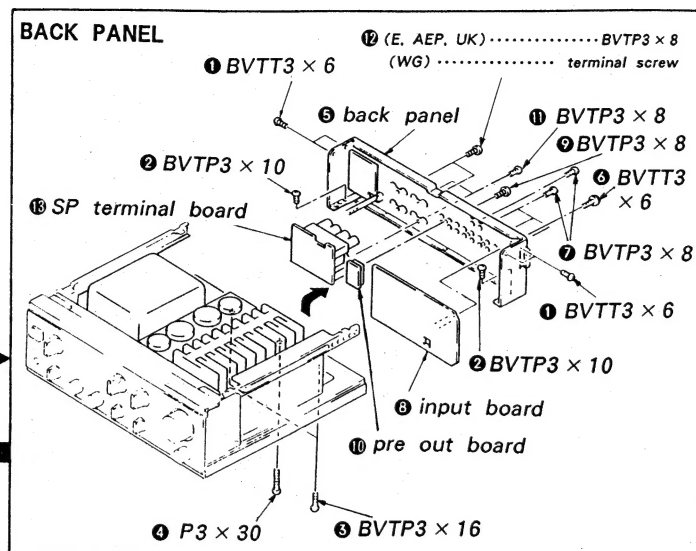
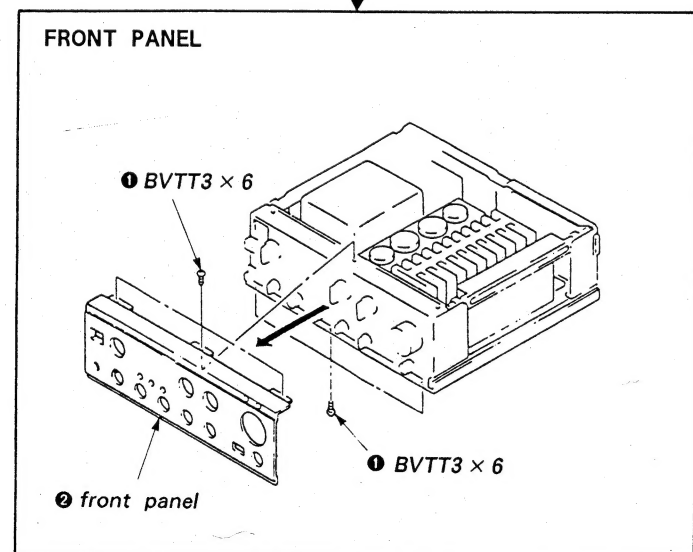
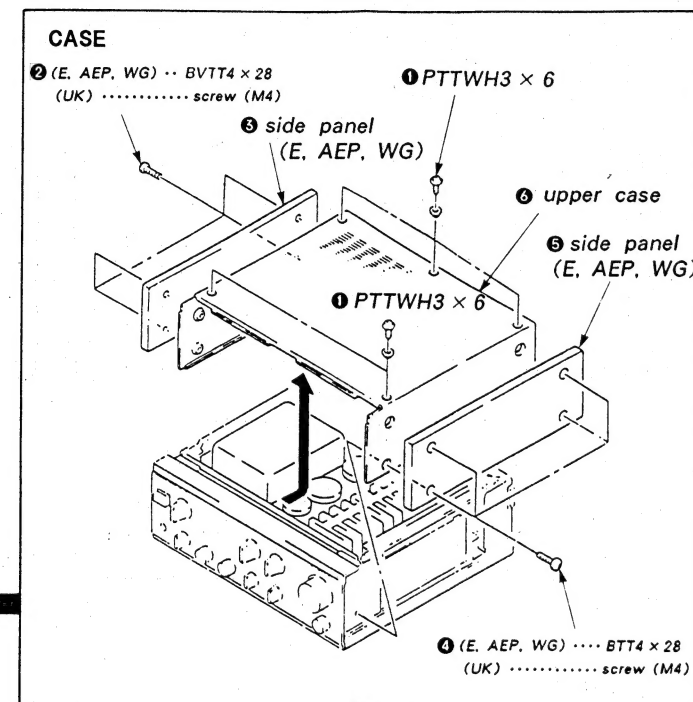
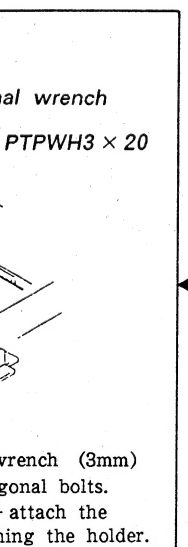
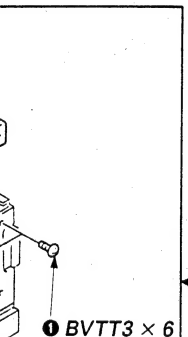
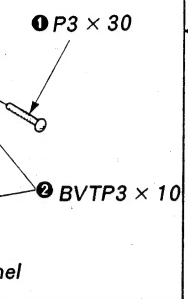


FRONT PANEL

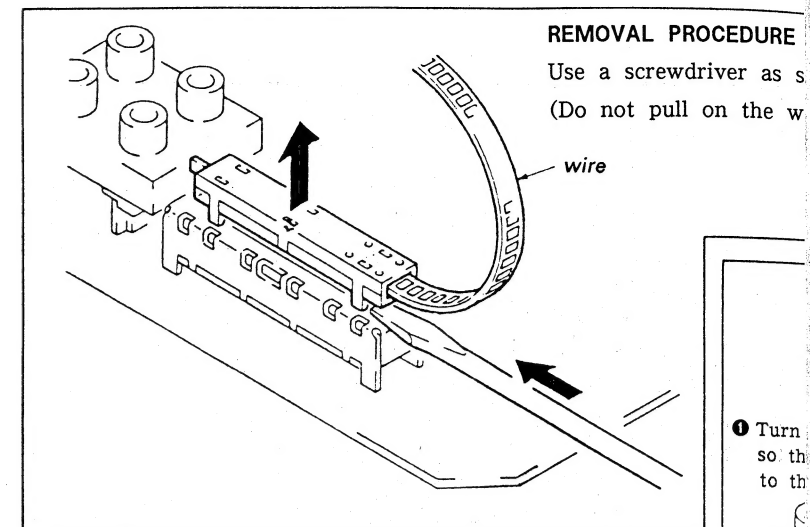


SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.



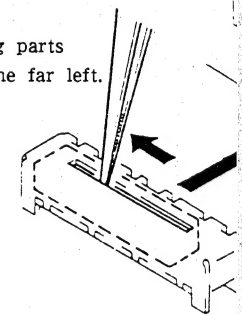
SECTION 3 REMOVAL SWITCH



ATTACHMENT PROCEDURE

Follow the numbered procedures shown to the right to attach.

- Position the sliding parts of the switch to the far left.



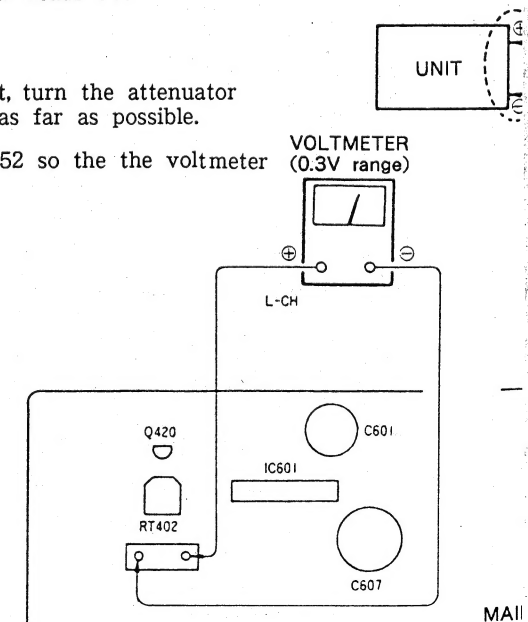
SECTION 4 ELECTRICAL ADJUSTMENT

OFFSET ADJUSTMENT

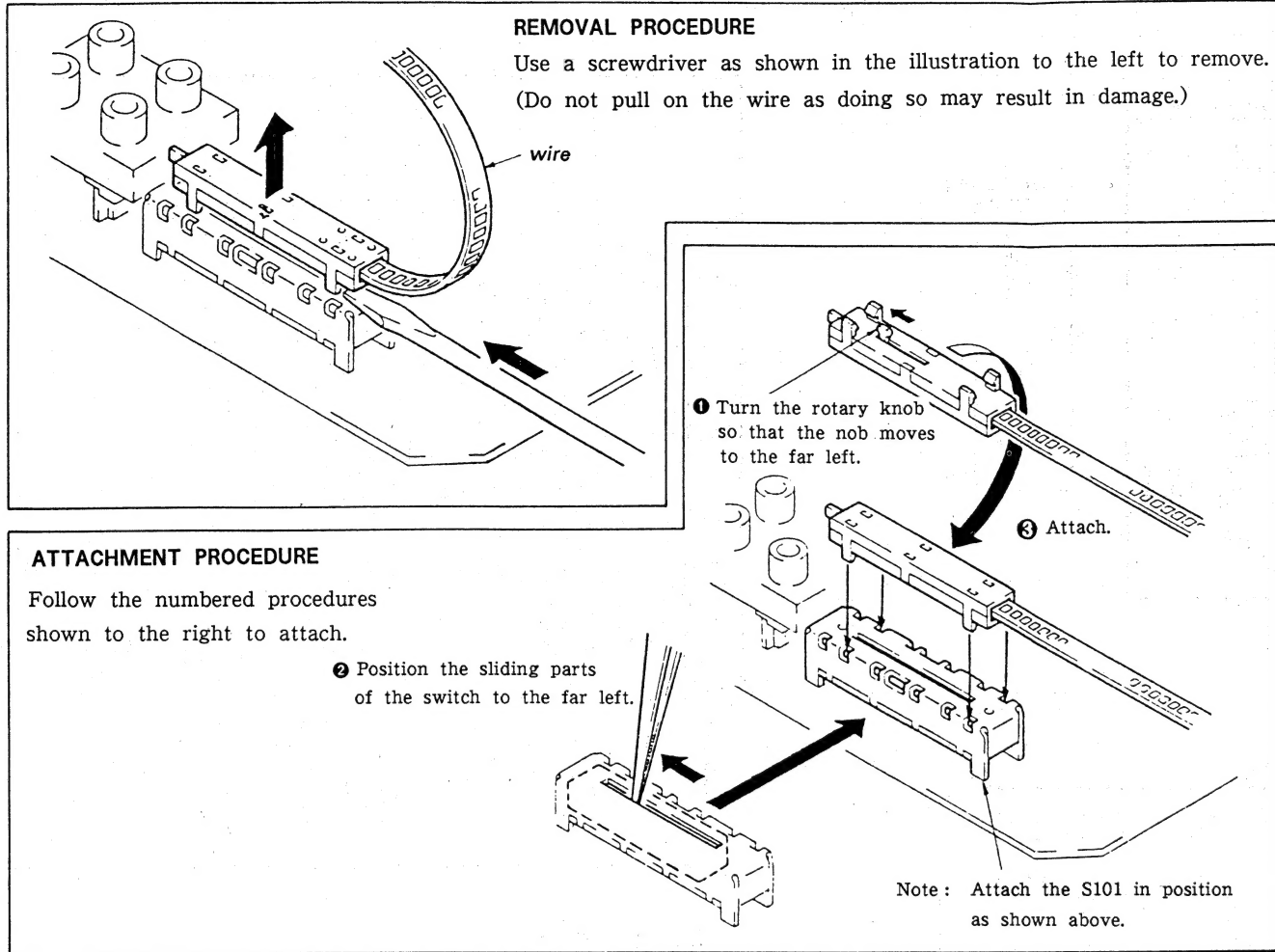
- With no signal input, turn the attenuator counter-clockwise as far as possible.
- Adjust RT401 and 451 on the main board so that the voltmeter reads 0V.

BIAS ADJUSTMENT

- With no signal input, turn the attenuator counter-clockwise as far as possible.
- Adjust RT402 and 452 so the the voltmeter reads 15mV.



SECTION 3 REMOVAL SWITCH BLOCK



SECTION 4

ELECTRICAL ADJUSTMENTS

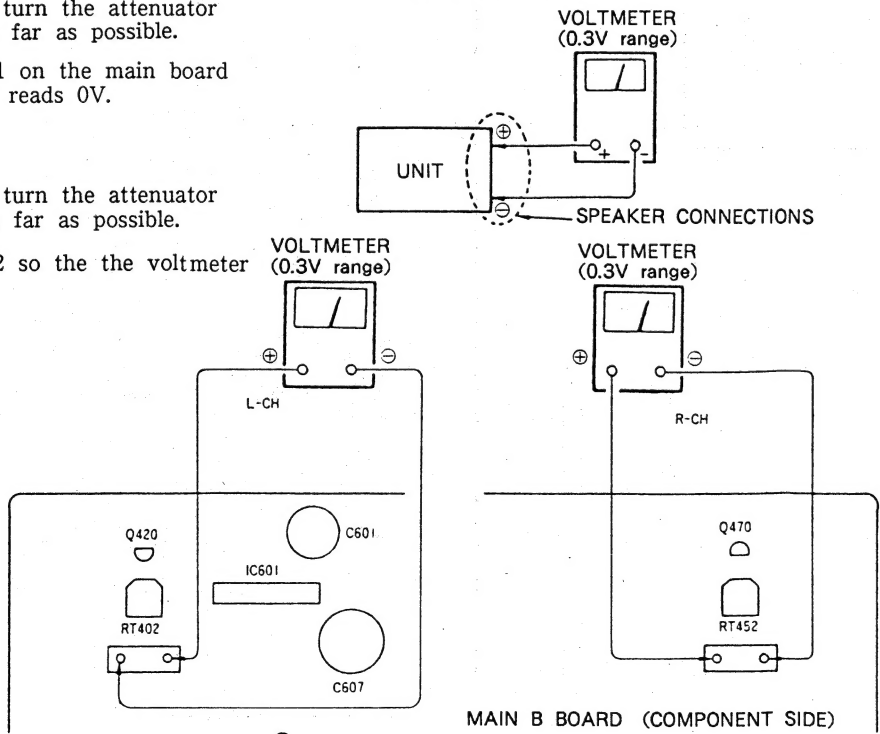
OFFSET ADJUSTMENT

1. With no signal input, turn the attenuator counter-clockwise as far as possible.
2. Adjust RT401 and 451 on the main board so that the voltmeter reads 0V.

BIAS ADJUSTMENT

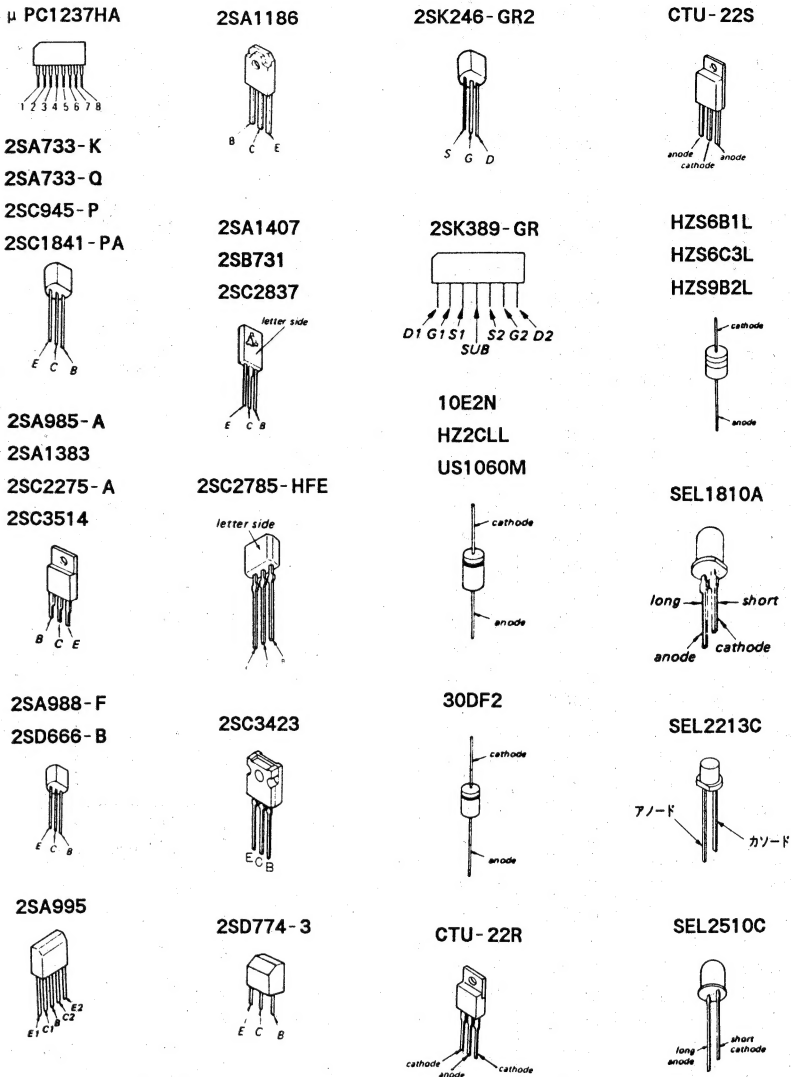
1. With no signal input, turn the attenuator counter-clockwise as far as possible.
2. Adjust RT402 and 452 so the the voltmeter reads 15mV.

WIRING DIAGRAM:

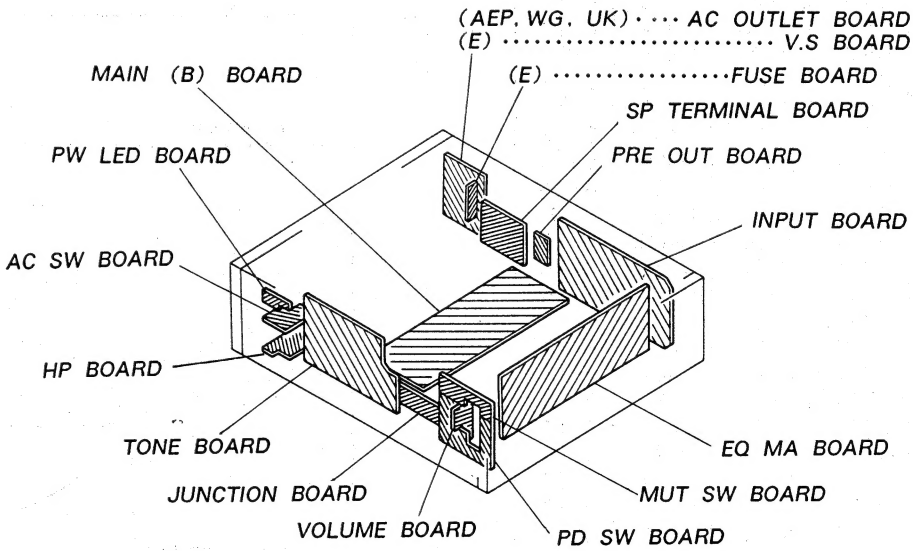


SECTION 5 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

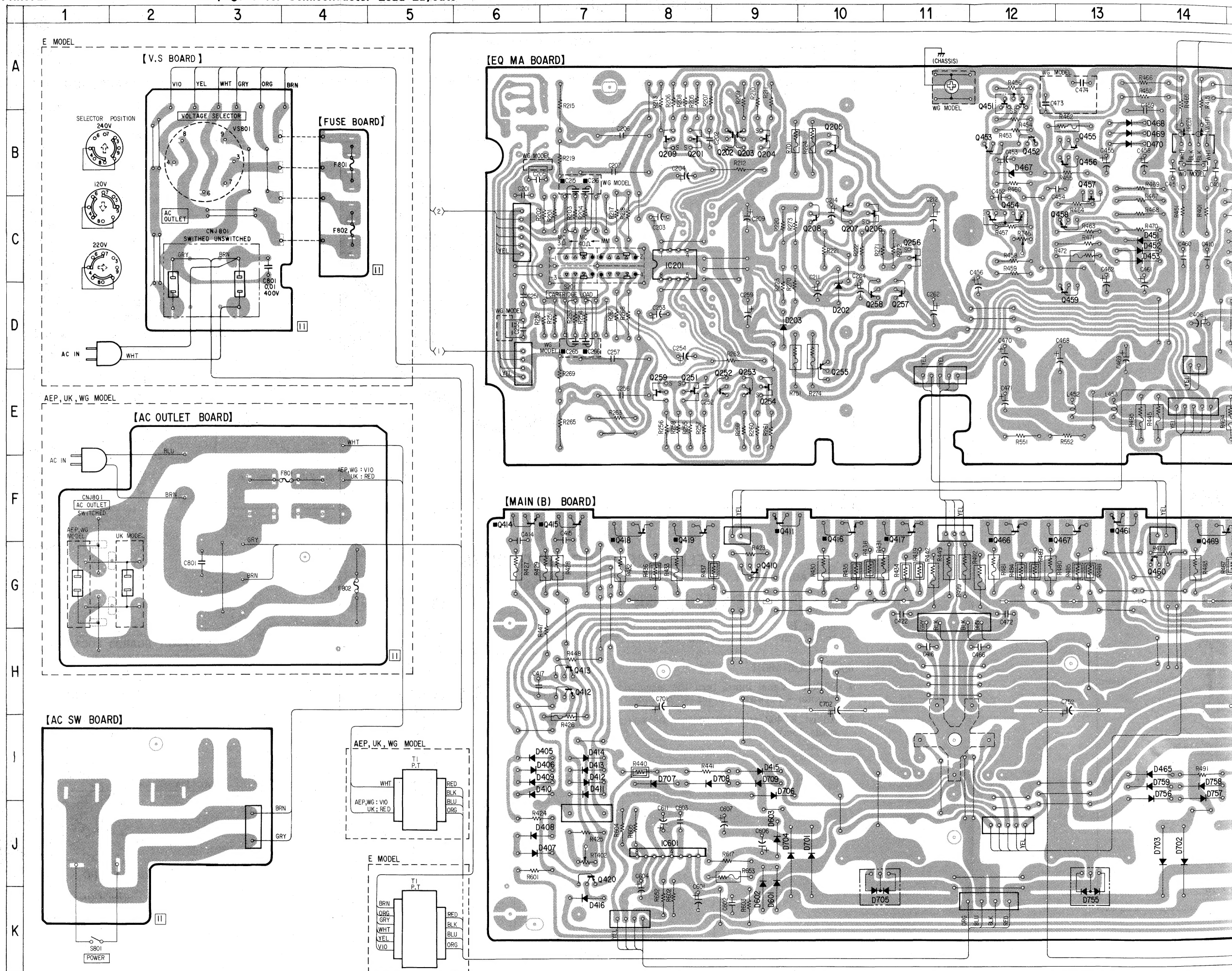


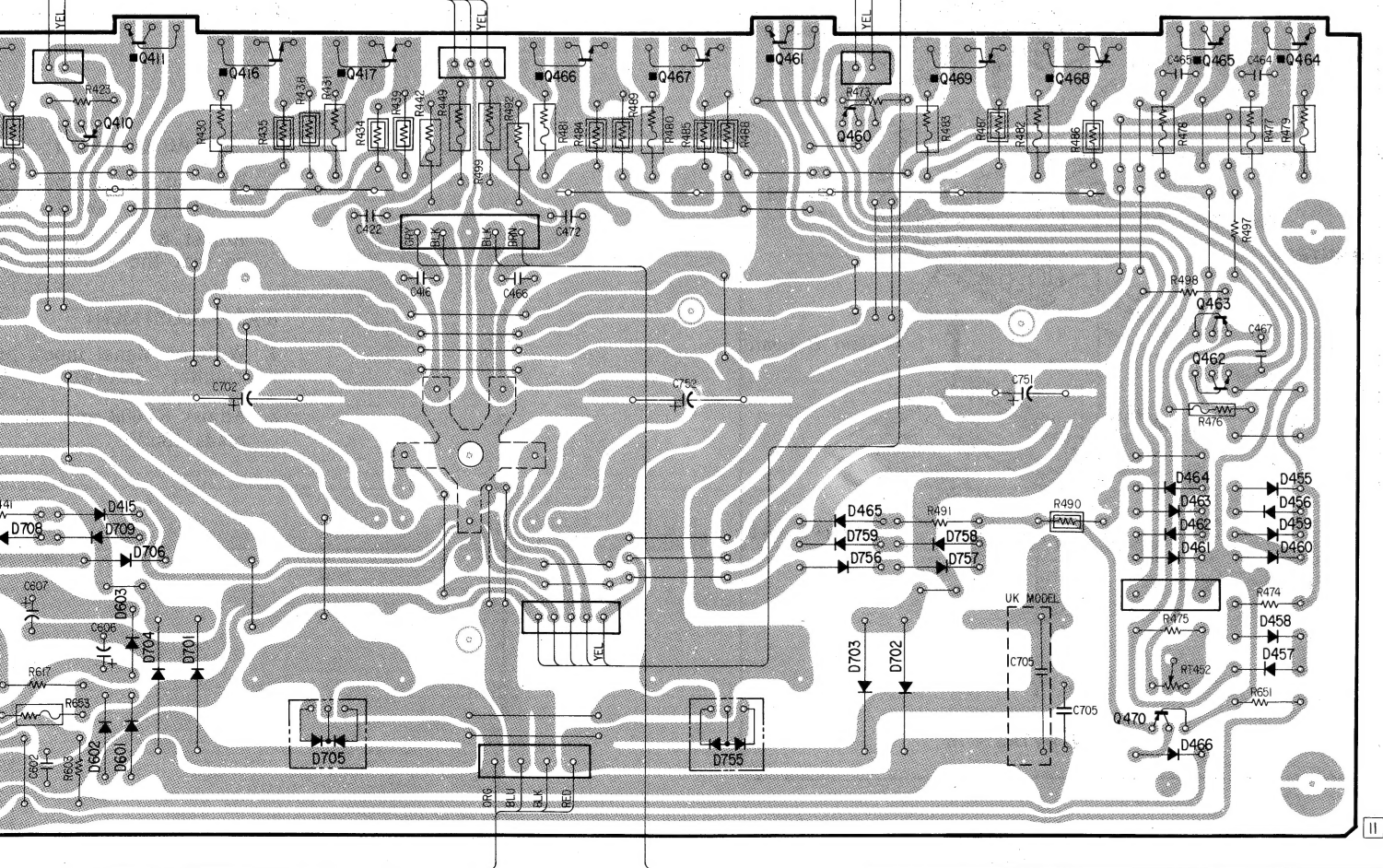
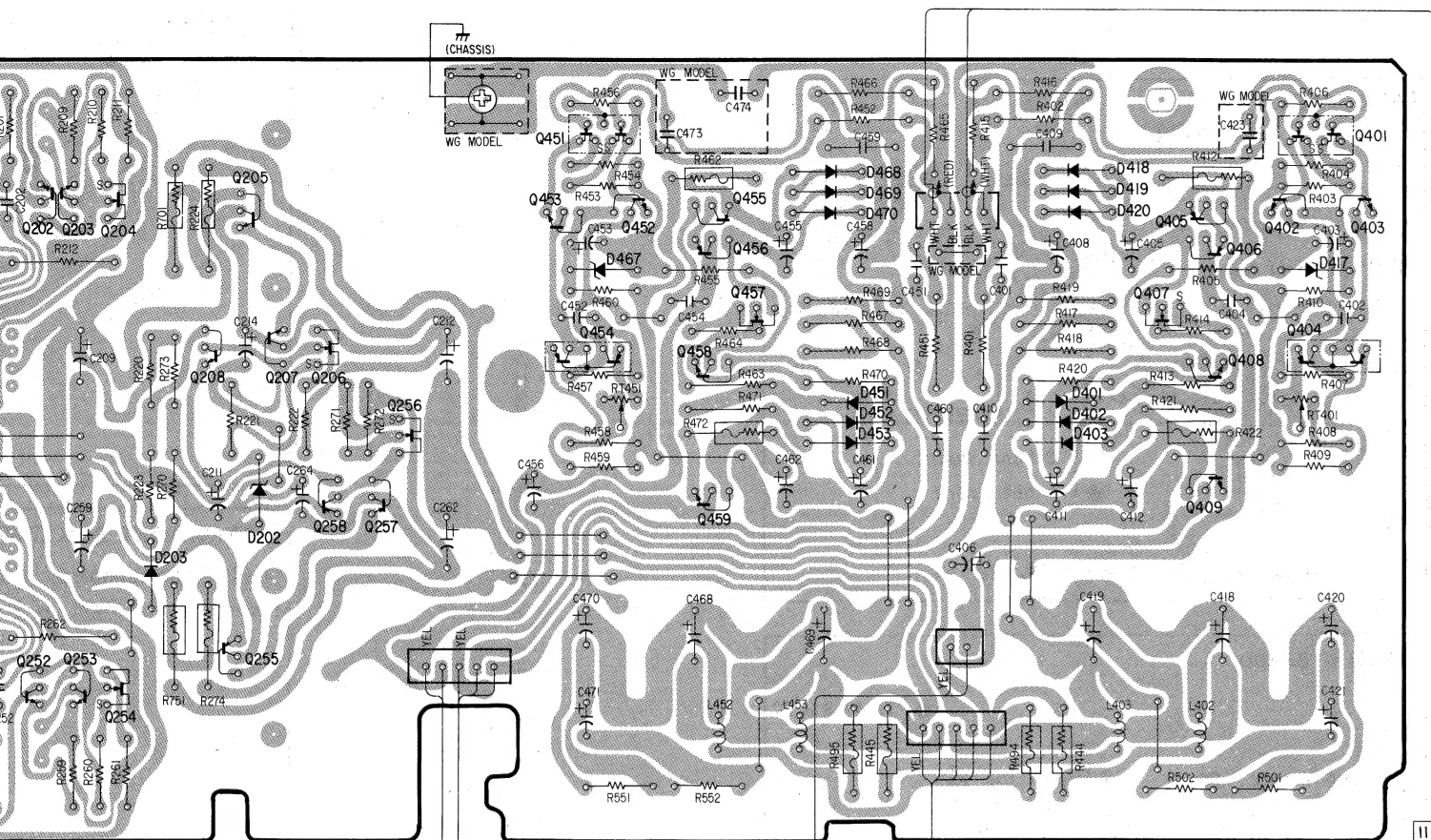
CIRCUIT BOARDS LOCATION



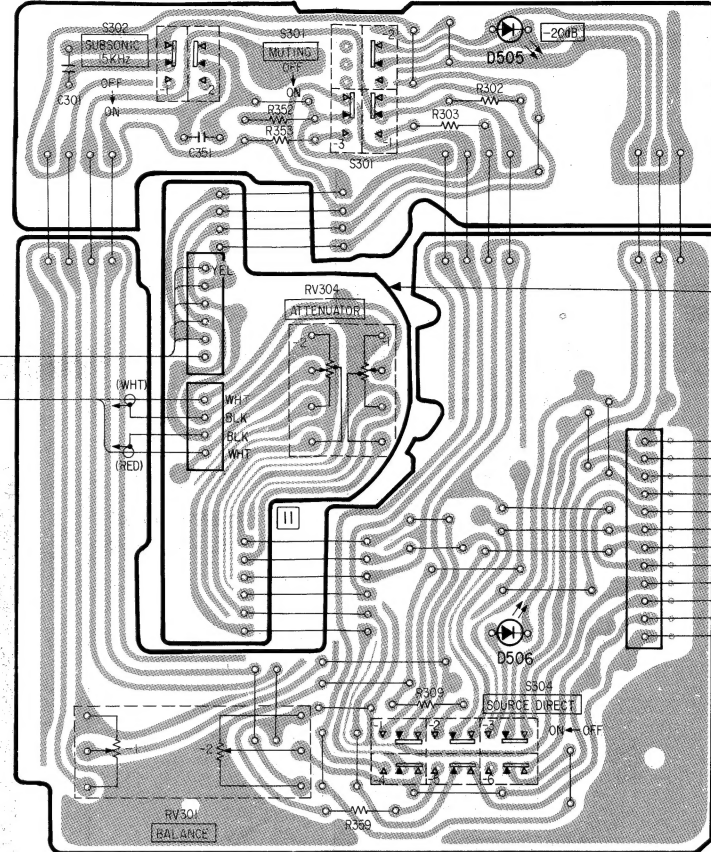
• Semiconductor Location

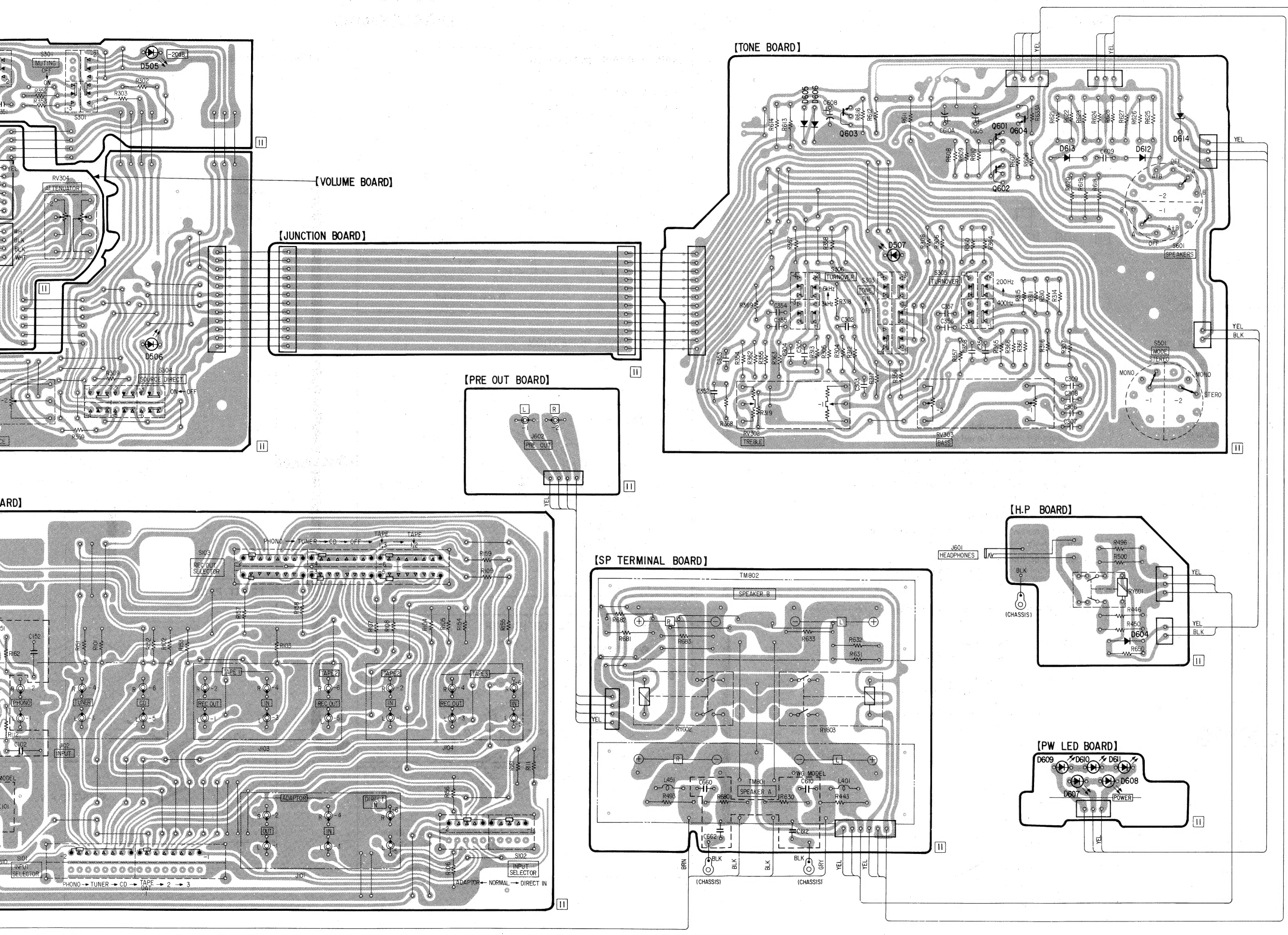
| Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|
| D202 | D-10 | D758 | I-14 |
| D203 | D-9 | D759 | I-14 |
| D401 | C-15 | | |
| D402 | C-15 | IC201 | C-8 |
| D403 | C-15 | IC601 | J-8 |
| D405 | I-6 | | |
| D406 | I-6 | Q201 | B-8 |
| D407 | J-6 | Q202 | B-9 |
| D408 | J-6 | Q203 | B-9 |
| D409 | I-6 | Q204 | B-9 |
| D410 | J-6 | Q205 | B-10 |
| D411 | J-7 | Q206 | C-10 |
| D412 | I-7 | Q207 | C-10 |
| D413 | I-7 | Q208 | C-10 |
| D414 | I-7 | Q209 | B-8 |
| D415 | I-9 | Q251 | E-8 |
| D416 | K-7 | Q252 | E-9 |
| D417 | B-16 | Q253 | E-9 |
| D418 | B-15 | Q254 | E-9 |
| D419 | B-15 | Q255 | E-10 |
| D420 | B-15 | Q256 | C-11 |
| D451 | C-13 | Q257 | D-11 |
| D452 | C-13 | Q258 | D-10 |
| D453 | C-13 | Q259 | E-8 |
| D455 | I-16 | Q401 | A-16 |
| D456 | I-16 | Q402 | B-16 |
| D457 | J-16 | Q403 | B-16 |
| D458 | J-16 | Q404 | C-16 |
| D459 | I-16 | Q405 | B-15 |
| D460 | I-16 | Q406 | B-16 |
| D461 | I-16 | Q407 | B-15 |
| D462 | I-16 | Q408 | C-16 |
| D463 | I-16 | Q409 | D-16 |
| D464 | I-16 | Q410 | G-9 |
| D465 | I-14 | Q411 | F-9 |
| D466 | K-16 | Q412 | H-7 |
| D467 | B-12 | Q413 | H-7 |
| D468 | B-13 | Q414 | F-6 |
| D469 | B-13 | Q415 | F-7 |
| D470 | B-13 | Q416 | F-10 |
| D505 | A-20 | Q417 | F-11 |
| D506 | E-20 | Q418 | F-8 |
| D507 | C-29 | Q419 | F-8 |
| D601 | K-9 | Q420 | K-7 |
| D602 | K-9 | Q451 | A-12 |
| D603 | J-9 | Q452 | B-12 |
| D604 | H-32 | Q453 | B-12 |
| D605 | B-28 | Q454 | C-12 |
| D606 | B-27 | Q455 | B-13 |
| D607 | J-31 | Q456 | B-13 |
| D608 | J-31 | Q457 | C-13 |
| D609 | I-31 | Q458 | C-13 |
| D610 | I-31 | Q459 | D-13 |
| D611 | I-31 | Q460 | G-14 |
| D612 | B-32 | Q461 | F-13 |
| D613 | B-32 | Q462 | H-16 |
| D614 | B-32 | Q463 | H-16 |
| D701 | J-10 | Q464 | F-16 |
| D702 | J-14 | Q465 | F-16 |
| D703 | J-14 | Q466 | F-12 |
| D704 | J-9 | Q467 | F-13 |
| D705 | K-10 | Q468 | F-15 |
| D706 | J-9 | Q469 | F-14 |
| D707 | I-8 | Q470 | J-16 |
| D708 | I-8 | Q601 | B-30 |
| D709 | I-9 | Q602 | B-30 |
| D755 | K-13 | Q603 | B-28 |
| D756 | I-14 | Q604 | B-30 |
| D757 | I-14 | | |





[MUT BOARD]





| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|

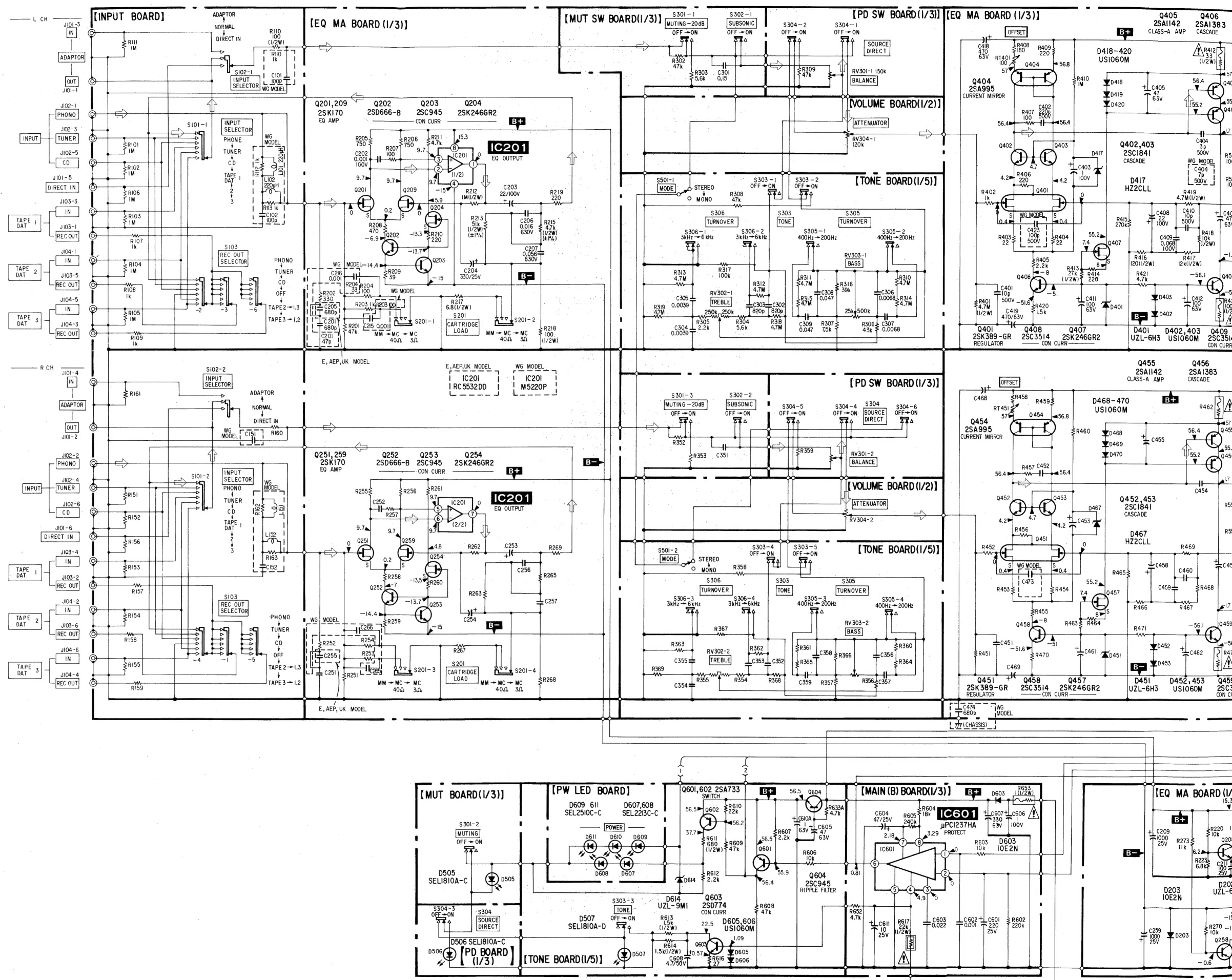
A
—
B
—
C
—

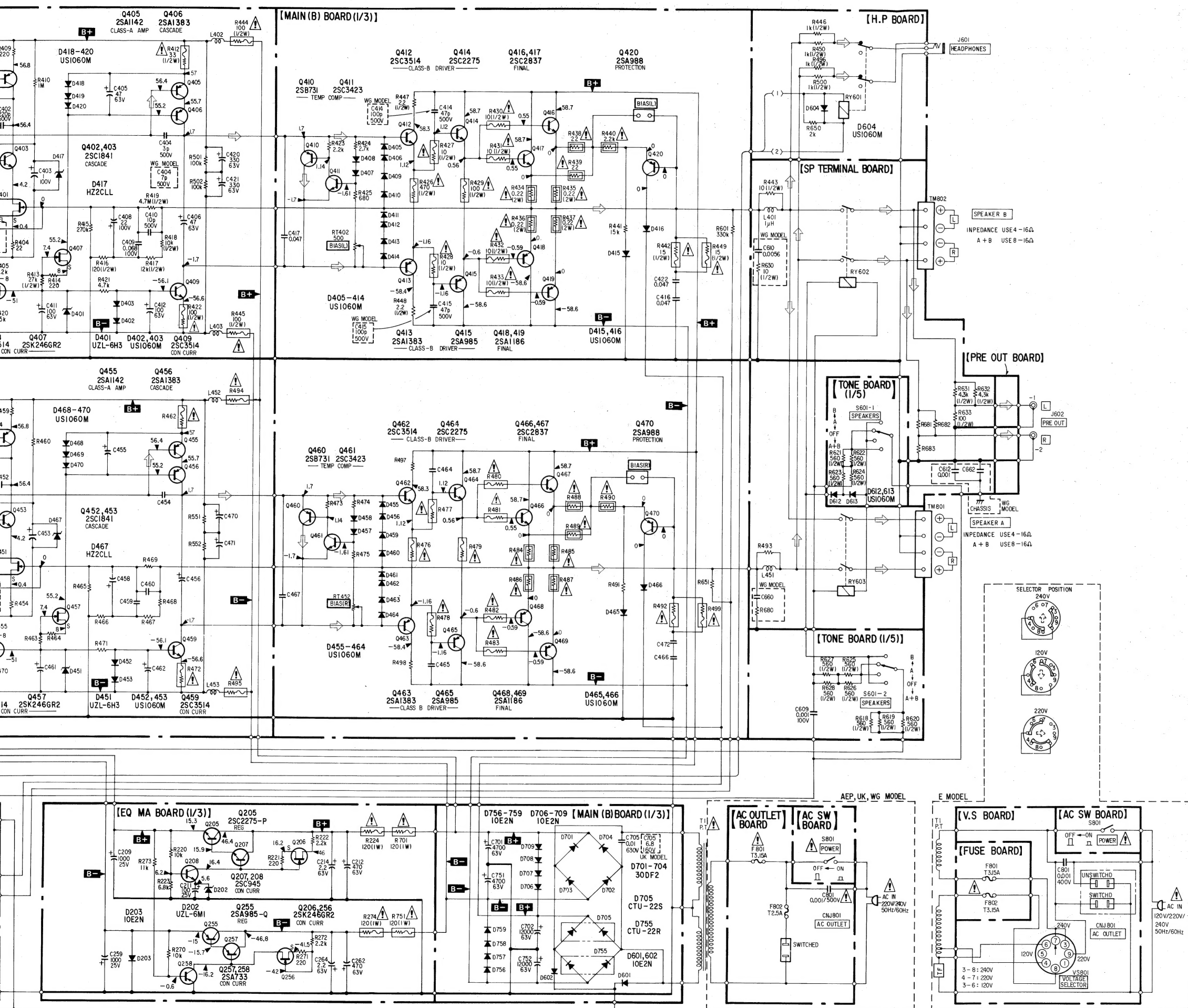
E

F

G

H





SECTION 6 EXPLODED VIEWS

NOTE:

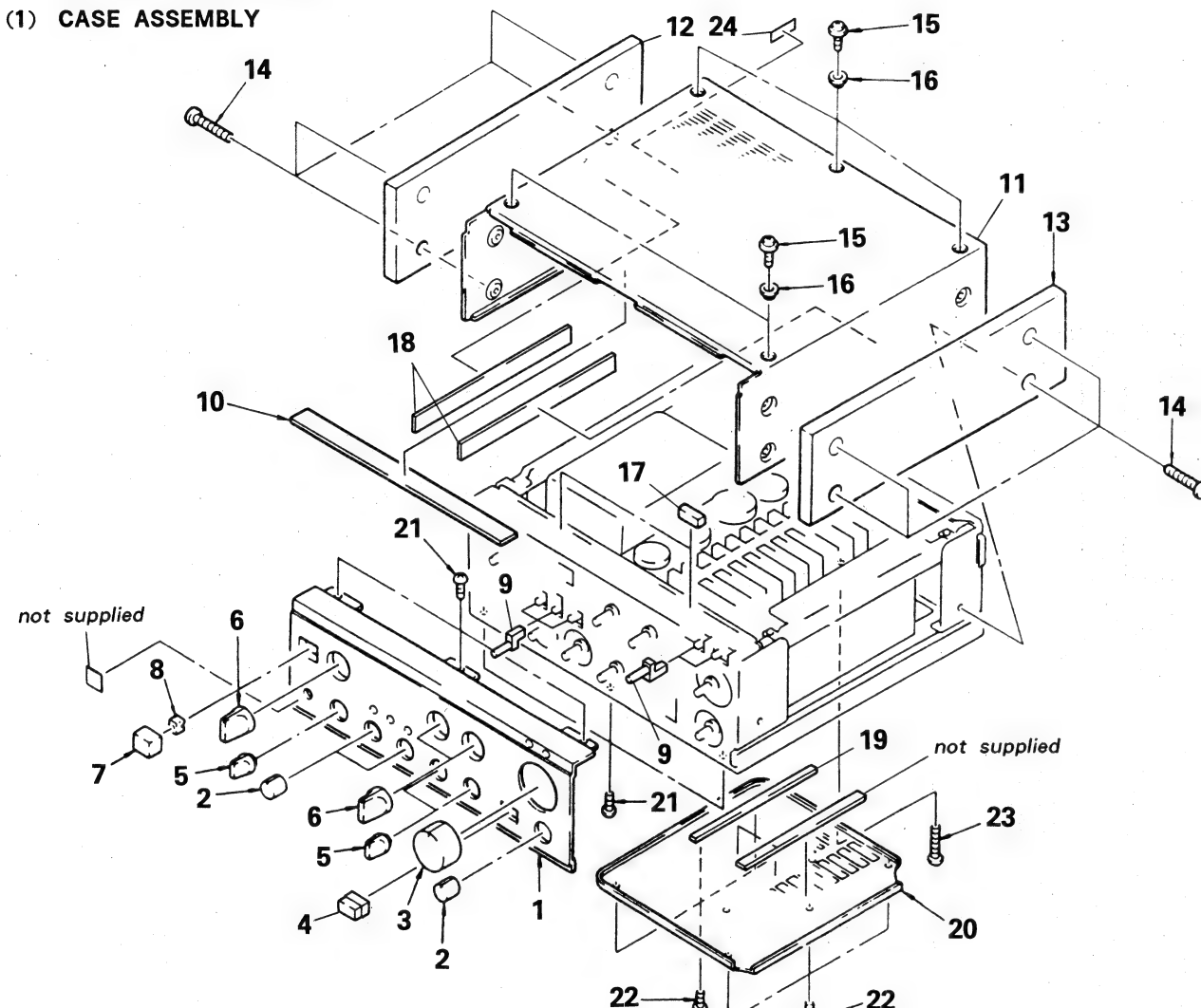
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts Color

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

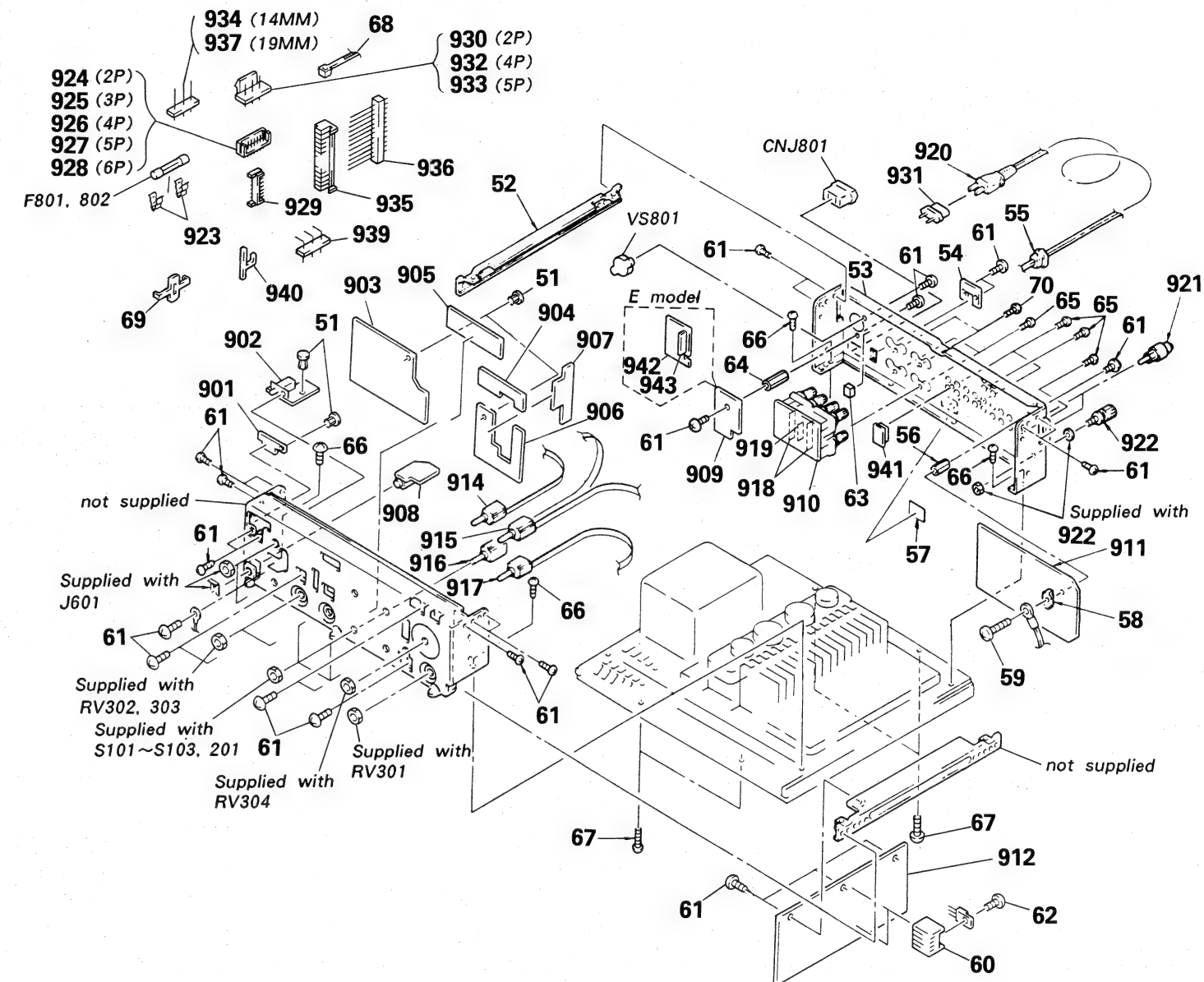
- WG: West Germany model

(1) CASE ASSEMBLY



| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|------------------------------|---|---------|-----|------------------------------|---|---------|
| 1 | A-4317-911-A A-4317-915-A | (AE,WG,UK)...PANEL ASSY, FRONT (E).....PANEL ASSY, FRONT | | 13 | X-4885-940-1 X-4885-952-1 | (AEP,E)...PLATE (RIGHT) ASSY, SIDE (WG).....PLATE (RIGHT) ASSY, SIDE | |
| 2 | 4-923-871-01 | KNOB (ROUND-22)(BASS/TREBLE/BALANCE) | | 14 | 4-847-802-00 4-885-979-21 | (UK).....SCREW (AEP,WG,E)...SCREW (4X28) | |
| 3 | 4-923-870-01 | KNOB (ROUND-55)(ATTENUATOR) | | 15 | 4-886-821-01 | SCREW, S TIGHT, +PTWH 3X6 | |
| 4 | 4-917-460-21 | KNOB (SOURCE DIRECT) | | 16 | 3-576-298-11 | ESCUTCHEON | |
| 5 | 4-923-869-01 | KNOB (FLAT-22) (MODE/REC OUT SELECTOR/CARTRIDGE LOAD) | | 17 | *4-908-872-01 | CUSHION | |
| 6 | 4-923-868-01 | KNOB (FLAT-32)(INPUT SELECTOR) | | 18 | *4-916-782-01 | (UK)...DAMPER | |
| 7 | 4-908-856-01 | KNOB, SQUARE (POWER) | | 19 | *4-916-782-11 | DAMPER | |
| 8 | 4-864-307-00 | RING | | 20 | *4-921-428-01 | PLATE, BOTTOM | |
| 9 | 4-923-879-01 | BUTTON (DIA.4) (TURNOVER/TONE/MUTING/SUBSONIC) | | 21 | 7-682-547-09 | SCREW +B 3X6 | |
| 10 | *4-916-782-01 | DAMPER | | 22 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 SLIT | |
| 11 | 4-908-868-01 | CASE | | 23 | 7-685-153-19 | SCREW +P 3X30 TYPE2 SLIT | |
| 12 | X-4885-939-1 X-4885-951-1 | (AEP,E)...PLATE (LEFT) ASSY, SIDE (WG).....PLATE (LEFT) ASSY, SIDE | | 24 | *3-703-079-21 | (UK)...LABEL, CAUTION (BACK) | |

(2) FRONT CHASSIS, BACK PANEL ASSEMBLIES

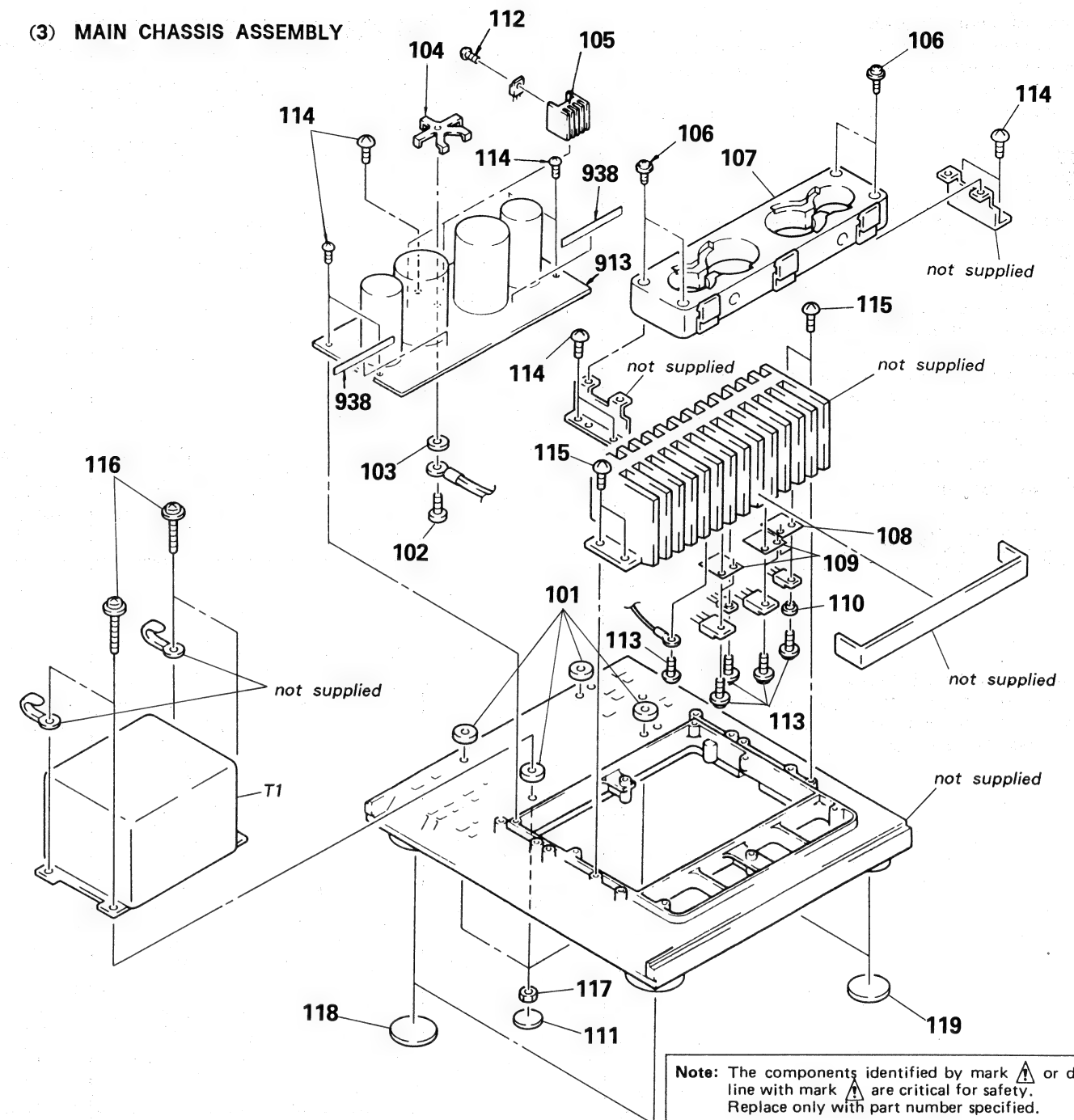


| No. | Part No. | Description | Remarks |
|-----|----------------|--|---------|
| 51 | 4-812-134-00 | RIVET NYLON, 3.5 | |
| 52 | *4-908-861-31 | BRACKET, EQ | |
| 53 | *4-923-842-11 | (AEP)...PANEL, BACK | |
| | *4-923-842-21 | (WG)...PANEL, BACK | |
| | *4-923-842-31 | (UK)...PANEL, BACK | |
| | *4-923-842-41 | (E)...PANEL, BACK | |
| 54 | *4-923-873-01 | BRACKET, CORD STOPPER | |
| 55 | △.2-352-626-11 | (AEP,WG,UK)...BUSHING, CORD | |
| | △.3-703-244-00 | (E)...BUSHING (2104), CORD | |
| 56 | *2-280-622-51 | SUPPORT (M3), HEXAGON | |
| 57 | *4-929-251-11 | (AEP)...LABEL, MODEL NUMBER | |
| | *4-929-252-01 | (UK)...LABEL, MODEL NUMBER | |
| | *4-929-253-01 | (E)...LABEL, MODEL NUMBER | |
| | *4-929-254-01 | (WG)...LABEL, MODEL NUMBER | |
| 58 | *4-835-639-00 | PLATE, GROUND | |
| 59 | 7-682-149-15 | SCREW, TR | |
| 60 | *4-921-402-01 | HEAT SINK | |
| 61 | 7-682-547-09 | SCREW +B 3X6 | |
| 62 | 7-682-548-09 | SCREW +B 3X8 | |
| 63 | *4-916-707-01 | (E)...CUSHION | |
| 64 | *2-280-622-51 | (AEP,WG)...SUPPORT (M3), HEXAGON | |
| | *2-280-622-61 | (UK)...SUPPORT (M3X20), HEXAGON | |
| 65 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 66 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 SLIT | |
| 67 | 7-685-650-79 | SCREW +BVTP 3X16 TYPE2 SLIT | |
| 68 | 3-655-653-21 | BAND (TAITON), BINDING | |
| 69 | *4-923-814-01 | (AEP,WG,UK)...PLATE, CONNECTION | |
| 70 | 3-704-242-11 | (WG)...SCREW, TERMINAL, +PVTP CLAW | |
| | 7-685-646-79 | (AEP,UK,E)...SCREW +BVTP 3X8 TYPE2 N-2 | |
| 901 | *1-628-959-11 | PC BOARD, PW LED | |
| 902 | *1-628-963-11 | PC BOARD, AC SW | |
| 903 | *A-4410-864-A | MOUNTED PCB, TONE | |
| 904 | *1-628-954-11 | PC BOARD, MUT | |
| 905 | *1-628-957-11 | PC BOARD, JUNCTION | |
| 906 | *1-628-955-11 | PC BOARD, PD | |
| 907 | *1-628-953-11 | PC BOARD, VOLUME | |
| 908 | *1-628-958-11 | PC BOARD, HP | |
| 909 | *1-626-600-11 | (AEP,WG,UK)...PC BOARD, AC OUTLET | |
| 910 | *1-628-956-11 | PC BOARD, SP TERMINAL | |
| 911 | *1-628-951-11 | PC BOARD, INPUT | |
| 912 | *A-4333-136-A | (WG)...MOUNTED PCB, EQ MA | |
| | *A-4333-176-A | (AEP,E)...MOUNTED PCB, EQ MA | |
| | *A-4333-669-A | (UK)...MOUNTED PCB, EQ MA | |

| No. | Part No. | Description | Remarks |
|---------|----------------|--|---------|
| 914 | 1-571-337-11 | SWITCH, ROTARY SLIDE | |
| 915 | 1-571-769-11 | SWITCH, ROTARY SLIDE (REMOTE) | |
| 916 | 1-571-770-11 | SWITCH, ROTARY SLIDE (REMOTE) | |
| 917 | 1-571-771-11 | SWITCH, ROTARY SLIDE (REMOTE) | |
| 918 | *1-560-242-11 | BUS BAR 3P | |
| 919 | *1-560-242-61 | BUS BAR 2P | |
| 920 | △.1-555-386-00 | (E)...CORD, POWER | |
| | △.1-559-271-11 | (AEP,WG)...CORD, POWER | |
| | △.1-559-272-11 | (UK)...CORD, POWER | |
| 921 | 1-506-113-00 | SHORT PLUG | |
| 922 | 1-535-691-11 | TERMINAL | |
| 923 | 1-533-183-11 | HOLDER, FUSE | |
| 924 | *1-564-505-11 | PLUG, CONNECTOR 2P | |
| 925 | *1-564-506-11 | PLUG, CONNECTOR 3P | |
| 926 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| 927 | *1-564-508-11 | PLUG, CONNECTOR 5P | |
| 928 | *1-564-509-11 | PLUG, CONNECTOR 6P | |
| 929 | *1-564-521-11 | PLUG, CONNECTOR 6P | |
| 930 | *1-564-321-00 | PIN, CONNECTOR 2P | |
| 931 | △.1-526-565-00 | (E)...AC PLUG ADAPTOR | |
| 932 | *1-564-241-00 | PIN, CONNECTOR 4P | |
| 933 | *1-564-242-00 | PIN, CONNECTOR 5P | |
| 934 | *1-535-136-00 | (E)...BASE POST 14MM (10MM PITCH) 3P | |
| 935 | *1-561-652-00 | SOCKET, CONNECTOR 12P | |
| 936 | *1-560-533-00 | PIN, CONNECTOR 12P | |
| 937 | *1-535-140-00 | (AEP,WG,UK)...BASE POST 19MM (10MM PITCH) 3P | |
| 938 | *1-560-242-31 | BUS BAR 5P | |
| 939 | *1-560-595-21 | (AEP,WG,UK)...TERMINAL (WITH BASE) | |
| 940 | 1-535-476-11 | (AEP,WG,UK)...TERMINAL | |
| 941 | *1-631-317-11 | PC BOARD, PRE OUT | |
| 942 | *1-619-928-11 | PC BOARD, V.S | |
| 943 | *1-619-929-11 | PC BOARD, FUSE (E) | |
| CNJ801△ | △.1-526-751-00 | (UK)...OUTLET, AC | |
| CNJ801△ | △.1-526-794-11 | (AEP,WG)...OUTLET, AC | |
| CNJ801△ | △.1-526-883-00 | (E)...OUTLET, AC | |
| F801△ | △.1-532-237-00 | FUSE, TIME-LAG (T3.15A) | |
| F802△ | △.1-532-237-00 | (E)...FUSE, TIME-LAG (T3.15A) | |
| F802△ | △.1-532-286-00 | (AEP,WG,UK)...FUSE, TIME-LAG (T2.5A) | |
| VS801△ | △.1-526-576-51 | (E)...SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) | |

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

(3) MAIN CHASSIS ASSEMBLY



Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-------------------------|---------|-----|----------------|---------------------------------|---------|
| 101 | 4-923-848-01 | WASHER (B.S) | | 114 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 SLIT | |
| 102 | 7-682-149-15 | SCREW, TR | | 115 | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2 SLIT | |
| 103 | 4-309-378-00 | WASHER | | 116 | 7-682-669-09 | SCREW +PSW 4X35 | |
| 104 | *4-916-791-01 | PLATE, GROUND, 5P | | 117 | 7-684-024-04 | N 4, TYPE 2 | |
| 105 | *4-921-402-01 | HEAT SINK | | 118 | *4-908-888-01 | (UK)...FOOT, TUNING | |
| 106 | 4-921-437-01 | SCREW (M3X20), TAPPING | | | *4-923-850-01 | (AEP,WG,E)...FOOT (DIA. 46) | |
| 107 | *X-4885-928-3 | HOLDER (A) ASSY | | 119 | *4-908-887-01 | (UK)...FOOT, TUNING | |
| 108 | 4-901-949-01 | SHEET, INSULATING | | | *4-923-849-01 | (AEP,WG,E)...FOOT (DIA. 38) | |
| 109 | 4-908-847-01 | SHEET, INSULATING | | 913 | *A-4333-137-A | (WG)...MOUNTED PCB, MAIN (B) | |
| 110 | 2-371-561-00 | BUSHING (P), INSULATING | | | *A-4333-668-A | (AEP,E)...MOUNTED PCB, MAIN (B) | |
| 111 | *4-908-892-01 | SPACER | | | *A-4333-670-A | (UK)...MOUNTED PCB, MAIN (B) | |
| 112 | 7-682-548-09 | SCREW +B 3X8 | | T1 | △.1-449-652-11 | (AEP)...TRANSFORMER, POWER | |
| 113 | 7-682-549-01 | SCREW +B 3X10 | | T1 | △.1-449-653-11 | (WG)...TRANSFORMER, POWER | |
| | | | | T1 | △.1-449-654-11 | (E)...TRANSFORMER, POWER | |
| | | | | T1 | △.1-449-655-11 | (UK)...TRANSFORMER, POWER | |

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:

UA....: μ A..., UPA....: μ PA...,
UPC....: μ PC, UPD....: μ PD...



The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

- WG: West Germany model

| Ref.No. | Part No. | Description | Ref.No. | Part No. | Description |
|---------|---------------|--|---------|---------------|------------------------------------|
| 901 | *1-628-959-11 | PC BOARD, PW LED | 939 | *1-560-595-21 | (AEP,WG,UK)...TERMINAL (WITH BASE) |
| 902 | *1-628-963-11 | PC BOARD, AC SW | 940 | 1-535-476-11 | (AEP,WG,UK)...TERMINAL |
| 903 | *A-4410-864-A | MOUNTED PCB, TONE | 941 | *1-631-317-11 | PC BOARD, PRE OUT |
| 904 | *1-628-954-11 | PC BOARD, MUT | 942 | *1-619-928-11 | PC BOARD, V.S |
| 905 | *1-628-957-11 | PC BOARD, JUNCTION | 943 | *1-619-929-11 | PC BOARD, FUSE (E) |
| 906 | *1-628-955-11 | PC BOARD, PD | C101 | 1-162-282-31 | (WG)...CERAMIC 100PF 5% 50V |
| 907 | *1-628-953-11 | PC BOARD, VOLUME | C102 | 1-162-282-31 | (WG)...CERAMIC 100PF 5% 50V |
| 908 | *1-628-958-11 | PC BOARD, HP | C151 | 1-162-282-31 | (WG)...CERAMIC 100PF 5% 50V |
| 909 | *1-626-600-11 | (AEP,WG,UK)...PC BOARD, AC OUTLET | C152 | 1-162-282-31 | (WG)...CERAMIC 100PF 5% 50V |
| 910 | *1-628-956-11 | PC BOARD, SP TERMINAL | C201 | 1-107-163-00 | (WG).....MICA 47PF 5% 500V |
| 911 | *1-628-951-11 | PC BOARD, INPUT | C201 | 1-130-469-00 | (AEP,UK,E)...MYLAR 680PF 5% 50V |
| 912 | *A-4333-136-A | (WG).....MOUNTED PCB, EQ MA | C202 | 1-136-250-11 | FILM 0.001MF 5% 100V |
| | *A-4333-176-A | (AEP,E)...MOUNTED PCB, EQ MA | C203 | 1-124-748-11 | ELECT 22MF 20% 100V |
| | *A-4333-669-A | (UK).....MOUNTED PCB, EQ MA | C204 | 1-124-700-11 | ELECT 330MF 20% 25V |
| 913 | *A-4333-137-A | (WG).....MOUNTED PCB, MAIN (B) | C205 | 1-130-469-00 | (AEP,UK,E)...MYLAR 680PF 5% 50V |
| | *A-4333-668-A | (AEP,E)...MOUNTED PCB, MAIN (B) | C206 | 1-130-206-00 | FILM 0.016MF 2% 630V |
| | *A-4333-670-A | (UK).....MOUNTED PCB, MAIN (B) | C207 | 1-129-723-00 | FILM 0.056MF 2% 630V |
| 914 | 1-571-337-11 | SWITCH, ROTARY SLIDE | C209 | 1-124-557-11 | ELECT 1000MF 20% 25V |
| 915 | 1-571-769-11 | SWITCH, ROTARY SLIDE (REMOTE) | C211 | 1-123-333-00 | ELECT 100MF 20% 25V |
| 916 | 1-571-770-11 | SWITCH, ROTARY SLIDE (REMOTE) | C212 | 1-123-377-00 | ELECT 470MF 20% 63V |
| 917 | 1-571-771-11 | SWITCH, ROTARY SLIDE (REMOTE) | C214 | 1-123-381-00 | ELECT 2.2MF 20% 63V |
| 918 | *1-560-242-11 | BUS BAR 3P | C215 | 1-130-471-00 | (WG).....MYLAR 0.001MF 5% 50V |
| 919 | *1-560-242-61 | BUS BAR 2P | C216 | 1-130-471-00 | (WG).....MYLAR 0.001MF 5% 50V |
| 920 | 1-555-386-00 | (E).....CORD, POWER | C251 | 1-107-163-00 | (WG).....MICA 47PF 5% 500V |
| | 1-559-271-11 | (AEP,WG)...CORD, POWER | C251 | 1-130-469-00 | (AEP,UK,E)...MYLAR 680PF 5% 50V |
| | 1-559-272-11 | (UK).....CORD, POWER | C252 | 1-136-250-11 | FILM 0.001MF 5% 100V |
| 921 | 1-506-113-00 | SHORT PLUG | C253 | 1-124-748-11 | ELECT 22MF 20% 100V |
| 922 | 1-535-691-11 | TERMINAL | C254 | 1-124-700-11 | ELECT 330MF 20% 25V |
| 923 | 1-533-183-11 | HOLDER, FUSE | C255 | 1-130-469-00 | (AEP,UK,E)...MYLAR 680PF 5% 50V |
| 924 | *1-564-505-11 | PLUG, CONNECTOR 2P | C256 | 1-130-206-00 | FILM 0.016MF 2% 630V |
| 925 | *1-564-506-11 | PLUG, CONNECTOR 3P | C257 | 1-129-723-00 | FILM 0.056MF 2% 630V |
| 926 | *1-564-507-11 | PLUG, CONNECTOR 4P | C259 | 1-124-557-11 | ELECT 1000MF 20% 25V |
| 927 | *1-564-508-11 | PLUG, CONNECTOR 5P | C262 | 1-123-377-00 | ELECT 470MF 20% 63V |
| 928 | *1-564-509-11 | PLUG, CONNECTOR 6P | C264 | 1-123-381-00 | ELECT 2.2MF 20% 63V |
| 929 | *1-564-521-11 | PLUG, CONNECTOR 6P | C265 | 1-130-471-00 | (WG).....MYLAR 0.001MF 5% 50V |
| 930 | *1-564-321-00 | PIN, CONNECTOR 2P | C266 | 1-130-471-00 | (WG).....MYLAR 0.001MF 5% 50V |
| 931 | 1-526-565-00 | (E).....AC PLUG ADAPTOR | C301 | 1-136-167-00 | FILM 0.15MF 5% 50V |
| 932 | *1-564-241-00 | PIN, CONNECTOR 4P | C302 | 1-130-470-00 | MYLAR 820PF 5% 50V |
| 933 | *1-564-242-00 | PIN, CONNECTOR 5P | C303 | 1-130-470-00 | MYLAR 820PF 5% 50V |
| 934 | *1-535-136-00 | (E)...BASE POST 14MM (10MM PITCH) 3P | C304 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V |
| 935 | *1-561-652-00 | SOCKET, CONNECTOR 12P | C305 | 1-130-478-00 | MYLAR 0.0039MF 5% 50V |
| 936 | *1-560-533-00 | PIN, CONNECTOR 12P | C306 | 1-130-481-00 | MYLAR 0.0068MF 5% 50V |
| 937 | *1-535-140-00 | (AEP,WG,UK)...BASE POST 19MM (10MM PITCH) 3P | C307 | 1-130-481-00 | MYLAR 0.0068MF 5% 50V |
| 938 | *1-560-242-31 | BUS BAR 5P | C308 | 1-136-161-00 | FILM 0.047MF 5% 50V |
| | | | C309 | 1-136-161-00 | FILM 0.047MF 5% 50V |

| Ref.No. | Part No. | Description | | | |
|---------|--------------|-------------------|----------|-------|------|
| C351 | 1-136-167-00 | FILM | 0.15MF | 5% | 50V |
| C352 | 1-130-470-00 | MYLAR | 820PF | 5% | 50V |
| C353 | 1-130-470-00 | MYLAR | 820PF | 5% | 50V |
| C354 | 1-130-478-00 | MYLAR | 0.0039MF | 5% | 50V |
| C355 | 1-130-478-00 | MYLAR | 0.0039MF | 5% | 50V |
| C356 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C357 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C358 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C359 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C401 | 1-107-202-00 | MICA | 10PF | 0.5PF | 500V |
| C402 | 1-109-621-00 | MICA | 220PF | 5% | 500V |
| C403 | 1-123-380-00 | ELECT | 1MF | 20% | 100V |
| C404 | 1-107-048-00 | (WG).....MICA | 7PF | 0.5PF | 500V |
| C404 | 1-107-276-11 | (AEP,UK,E)...MICA | 3PF | 0.5PF | 500V |
| C405 | 1-124-918-11 | ELECT | 47MF | 20% | 63V |
| C406 | 1-124-918-11 | ELECT | 47MF | 20% | 63V |
| C408 | 1-124-748-11 | ELECT | 22MF | 20% | 100V |
| C409 | 1-130-317-00 | FILM | 0.068MF | 5% | 100V |
| C410 | 1-107-202-00 | MICA | 10PF | 0.5PF | 500V |
| C411 | 1-124-130-00 | ELECT | 100MF | 20% | 63V |
| C412 | 1-124-130-00 | ELECT | 100MF | 20% | 63V |
| C414 | 1-107-163-00 | (AEP,UK,E)...MICA | 47PF | 5% | 500V |
| C414 | 1-107-169-00 | (WG).....MICA | 100PF | 5% | 500V |
| C415 | 1-107-163-00 | (AEP,UK,E)...MICA | 47PF | 5% | 500V |
| C415 | 1-107-169-00 | (WG).....MICA | 100PF | 5% | 500V |
| C416 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C417 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C418 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C419 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C420 | 1-123-376-00 | ELECT | 330MF | 20% | 63V |
| C421 | 1-123-376-00 | ELECT | 330MF | 20% | 63V |
| C422 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C423 | 1-107-163-00 | (AEP,UK,E)...MICA | 47PF | 5% | 500V |
| C451 | 1-107-202-00 | MICA | 10PF | 0.5PF | 500V |
| C452 | 1-109-621-00 | MICA | 220PF | 5% | 500V |
| C453 | 1-123-380-00 | ELECT | 1MF | 20% | 100V |
| C454 | 1-107-048-00 | (WG).....MICA | 7PF | 0.5PF | 500V |
| C454 | 1-107-276-11 | (AEP,UK,E)...MICA | 3PF | 0.5PF | 500V |
| C455 | 1-124-918-11 | ELECT | 47MF | 20% | 63V |
| C456 | 1-124-918-11 | ELECT | 47MF | 20% | 63V |
| C458 | 1-124-748-11 | ELECT | 22MF | 20% | 100V |
| C459 | 1-130-317-00 | FILM | 0.068MF | 5% | 100V |
| C460 | 1-107-202-00 | MICA | 10PF | 0.5PF | 500V |
| C461 | 1-124-130-00 | ELECT | 100MF | 20% | 63V |
| C462 | 1-124-130-00 | ELECT | 100MF | 20% | 63V |
| C464 | 1-107-163-00 | MICA | 47PF | 5% | 500V |
| C464 | 1-107-169-00 | (WG).....MICA | 100PF | 5% | 500V |
| C465 | 1-107-169-00 | (WG).....MICA | 100PF | 5% | 500V |
| C465 | 1-107-163-00 | MICA | 47PF | 5% | 500V |
| C466 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C467 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C468 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C469 | 1-123-377-00 | ELECT | 470MF | 20% | 63V |
| C470 | 1-123-376-00 | ELECT | 330MF | 20% | 63V |
| C471 | 1-123-376-00 | ELECT | 330MF | 20% | 63V |

| Ref.No. | Part No. | Description | | | |
|---------|--------------|-----------------------|----------|-----|------|
| C472 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C473 | 1-107-169-00 | (WG)...MICA | 100PF | 5% | 500V |
| C474 | 1-130-469-00 | (WG)...MYLAR | 680PF | 5% | 50V |
| C601 | 1-123-334-00 | ELECT | 220MF | 20% | 25V |
| C602 | 1-130-471-00 | MYLAR | 0.001MF | 5% | 50V |
| C603 | 1-136-157-00 | FILM | 0.022MF | 5% | 50V |
| C604 | 1-123-332-00 | ELECT | 47MF | 20% | 25V |
| C605 | 1-124-918-11 | ELECT | 47MF | 20% | 63V |
| C606 | 1-123-380-00 | ELECT | 1MF | 20% | 100V |
| C607 | 1-123-376-00 | ELECT | 330MF | 20% | 63V |
| C608 | 1-123-369-00 | ELECT | 4.7MF | 20% | 50V |
| C609 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 100V |
| C610A | 1-123-380-00 | ELECT | 1MF | 20% | 63V |
| C610 | 1-130-480-00 | (WG)...MYLAR | 0.0056MF | 5% | 50V |
| C611 | 1-123-356-00 | ELECT | 10MF | 20% | 25V |
| C612 | 1-106-343-00 | (WG)...MYLAR | 0.001MF | 10% | 100V |
| C660 | 1-130-480-00 | (WG)...MYLAR | 0.0056MF | 5% | 50V |
| C662 | 1-106-343-00 | (WG)...MYLAR | 0.001MF | 10% | 100V |
| C701 | 1-125-503-11 | CAP, ELECT | 4700MF | | 63V |
| C702 | 1-125-381-00 | CAP, ELECT | 12000MF | | 63V |
| C705 | 1-136-601-11 | (AEP,WG,E)...FILM | 0.01MF | 10% | 630V |
| C705 | 1-136-905-11 | (UK).....FILM | 6.8MF | 10% | 160V |
| C751 | 1-125-503-11 | CAP, ELECT | 4700MF | | 63V |
| C752 | 1-125-381-00 | CAP, ELECT | 12000MF | | 63V |
| C801 | 1-161-741-00 | CERAMIC | 0.001MF | 10% | 400V |
| CNJ801A | 1-526-751-00 | (UK).....OUTLET, AC | | | |
| CNJ801A | 1-526-794-11 | (AEP,WG)...OUTLET, AC | | | |
| CNJ801A | 1-526-883-00 | (E).....OUTLET, AC | | | |
| D202 | 8-719-933-36 | ZENER DIODE HZS6B1L | | | |
| D203 | 8-719-200-77 | DIODE 10E2N | | | |
| D401 | 8-719-933-41 | ZENER DIODE HZS6C3L | | | |
| D402 | 8-719-000-26 | DIODE US1060M | | | |
| D403 | 8-719-000-26 | DIODE US1060M | | | |
| D405 | 8-719-000-26 | DIODE US1060M | | | |
| D406 | 8-719-000-26 | DIODE US1060M | | | |
| D407 | 8-719-000-26 | DIODE US1060M | | | |
| D408 | 8-719-000-26 | DIODE US1060M | | | |
| D409 | 8-719-000-26 | DIODE US1060M | | | |
| D410 | 8-719-000-26 | DIODE US1060M | | | |
| D411 | 8-719-000-26 | DIODE US1060M | | | |
| D412 | 8-719-000-26 | DIODE US1060M | | | |
| D413 | 8-719-000-26 | DIODE US1060M | | | |
| D414 | 8-719-000-26 | DIODE US1060M | | | |
| D415 | 8-719-000-26 | DIODE US1060M | | | |
| D416 | 8-719-000-26 | DIODE US1060M | | | |
| D417 | 8-719-921-13 | ZENER DIODE HZ2C1LL | | | |
| D418 | 8-719-000-26 | DIODE US1060M | | | |
| D419 | 8-719-000-26 | DIODE US1060M | | | |
| D420 | 8-719-000-26 | DIODE US1060M | | | |
| D451 | 8-719-933-41 | ZENER DIODE HZS6C3L | | | |
| D452 | 8-719-000-26 | DIODE US1060M | | | |
| D453 | 8-719-000-26 | DIODE US1060M | | | |
| D455 | 8-719-000-26 | DIODE US1060M | | | |
| D456 | 8-719-000-26 | DIODE US1060M | | | |
| D457 | 8-719-000-26 | DIODE US1060M | | | |

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

| Ref.No. | Part No. | Description |
|---------|----------------|--------------------------------------|
| D458 | 8-719-000-26 | DIODE US1060M |
| D459 | 8-719-000-26 | DIODE US1060M |
| D460 | 8-719-000-26 | DIODE US1060M |
| D461 | 8-719-000-26 | DIODE US1060M |
| D462 | 8-719-000-26 | DIODE US1060M |
| D463 | 8-719-000-26 | DIODE US1060M |
| D464 | 8-719-000-26 | DIODE US1060M |
| D465 | 8-719-000-26 | DIODE US1060M |
| D466 | 8-719-000-26 | DIODE US1060M |
| D467 | 8-719-921-13 | ZENER DIODE HZ2CLL |
| D468 | 8-719-000-26 | DIODE US1060M |
| D469 | 8-719-000-26 | DIODE US1060M |
| D470 | 8-719-000-26 | DIODE US1060M |
| D505 | 8-719-302-07 | LED SEL1810A (MUTE) |
| D506 | 8-719-302-07 | LED SEL1810A (SOURCE DIRECT) |
| D507 | 8-719-302-07 | LED SEL1810A (TONE) |
| D601 | 8-719-200-77 | DIODE 10E2N |
| D602 | 8-719-200-77 | DIODE 10E2N |
| D603 | 8-719-200-77 | DIODE 10E2N |
| D604 | 8-719-000-26 | DIODE US1060M |
| D605 | 8-719-000-26 | DIODE US1060M |
| D606 | 8-719-000-26 | DIODE US1060M |
| D607 | 8-719-300-82 | LED SEL2213C (POWER (RED)) |
| D608 | 8-719-300-82 | LED SEL2213C (POWER (RED)) |
| D609 | 8-719-303-00 | LED SEL2510C (POWER (GREEN)) |
| D610 | 8-719-303-00 | LED SEL2510C (POWER (GREEN)) |
| D611 | 8-719-303-00 | LED SEL2510C (POWER (GREEN)) |
| D612 | 8-719-000-26 | DIODE US1060M |
| D613 | 8-719-000-26 | DIODE US1060M |
| D614 | 8-719-933-57 | ZENER DIODE HZS982L |
| D701 | 8-719-230-02 | DIODE 30DF2 |
| D702 | 8-719-230-02 | DIODE 30DF2 |
| D703 | 8-719-230-02 | DIODE 30DF2 |
| D704 | 8-719-230-02 | DIODE 30DF2 |
| D705 | 8-719-300-27 | DIODE CTU-22S |
| D706 | 8-719-200-77 | DIODE 10E2N |
| D707 | 8-719-200-77 | DIODE 10E2N |
| D708 | 8-719-200-77 | DIODE 10E2N |
| D709 | 8-719-200-77 | DIODE 10E2N |
| D755 | 8-719-300-25 | DIODE CTU-22R |
| D756 | 8-719-200-77 | DIODE 10E2N |
| D757 | 8-719-200-77 | DIODE 10E2N |
| D758 | 8-719-200-77 | DIODE 10E2N |
| D759 | 8-719-200-77 | DIODE 10E2N |
| F801 | Δ.1-532-237-00 | FUSE, TIME-LAG (T3.15A) |
| F802 | Δ.1-532-237-00 | (E).....FUSE, TIME-LAG (T3.15A) |
| F802 | Δ.1-532-286-00 | (AEP,WG,UK)...FUSE, TIME-LAG (T2.5A) |
| IC201 | 8-759-602-01 | (WG).....IC M5220P |
| IC201 | 8-759-982-03 | (AEP,UK,E)...IC RC5532DD |
| IC601 | 8-759-111-68 | IC UPC1237HA |
| J101 | 1-507-831-00 | JACK, PIN 6P |
| J102 | 1-507-831-31 | JACK, PIN 6P (INPUT) |
| J103 | 1-507-831-00 | JACK, PIN 6P |
| J104 | 1-507-831-00 | JACK, PIN 6P |
| J601 | 1-507-863-51 | JACK, LARGE TYPE (HEADPHONES) |
| J602 | 1-507-852-00 | JACK, PIN 2P (PRE OUT) |

| Ref.No. | Part No. | Description |
|---------|---------------|------------------------|
| L101 | 1-413-101-00 | (WG)...COIL, AIR-CORE |
| L102 | 1-413-101-00 | (WG)...COIL, AIR-CORE |
| L151 | 1-413-101-00 | (WG)...COIL, AIR-CORE |
| L152 | 1-413-101-00 | (WG)...COIL, AIR-CORE |
| L401 | *1-422-009-13 | COIL, AIR-CORE |
| L402 | 1-422-261-11 | COIL, AIR-CORE |
| L403 | 1-422-261-11 | COIL, AIR-CORE |
| L451 | *1-422-009-13 | COIL, AIR-CORE |
| L452 | 1-422-261-11 | COIL, AIR-CORE |
| L453 | 1-422-261-11 | COIL, AIR-CORE |
| Q201 | 8-729-217-04 | TRANSISTOR 2SK170-V |
| Q202 | 8-729-366-61 | TRANSISTOR 2SD666-B |
| Q203 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q204 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q205 | 8-729-127-53 | TRANSISTOR 2SC2275-P |
| Q206 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q207 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q208 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q209 | 8-729-217-04 | TRANSISTOR 2SK170-V |
| Q251 | 8-729-217-04 | TRANSISTOR 2SK170-V |
| Q252 | 8-729-366-61 | TRANSISTOR 2SD666-B |
| Q253 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q254 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q255 | 8-729-190-53 | TRANSISTOR 2SA985A-P |
| Q256 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q257 | 8-729-173-38 | TRANSISTOR 2SA733-K |
| Q258 | 8-729-173-38 | TRANSISTOR 2SA733-K |
| Q259 | 8-729-217-04 | TRANSISTOR 2SK170-V |
| Q401 | 8-729-203-21 | TRANSISTOR 2SK389-GR |
| Q402 | 8-729-108-05 | TRANSISTOR 2SA1841-PA |
| Q403 | 8-729-108-05 | TRANSISTOR 2SA1841-PA |
| Q404 | 8-729-699-51 | TRANSISTOR 2SA995-F |
| Q405 | 8-729-802-71 | TRANSISTOR 2SA1407-D |
| Q406 | 8-729-104-91 | TRANSISTOR 2SA1383 |
| Q407 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q408 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q409 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q410 | 8-729-173-13 | TRANSISTOR 2SB731-F |
| Q411 | 8-729-203-45 | TRANSISTOR 2SC3423-O |
| Q412 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q413 | 8-729-104-91 | TRANSISTOR 2SA1383-Q |
| Q414 | 8-729-107-53 | TRANSISTOR 2SC2275A-P |
| Q415 | 8-729-190-53 | TRANSISTOR 2SA985A-P |
| Q416 | 8-729-383-73 | TRANSISTOR 2SC2837-Y |
| Q417 | 8-729-383-73 | TRANSISTOR 2SC2837-Y |
| Q418 | 8-729-318-63 | TRANSISTOR 2SA1186-Y |
| Q419 | 8-729-318-63 | TRANSISTOR 2SA1186-Y |
| Q420 | 8-729-108-14 | TRANSISTOR 2SA988-F |
| Q451 | 8-729-203-21 | TRANSISTOR 2SK389-GR |
| Q452 | 8-729-108-05 | TRANSISTOR 2SA1841-PA |
| Q453 | 8-729-108-05 | TRANSISTOR 2SA1841-PA |
| Q454 | 8-729-699-51 | TRANSISTOR 2SA995-F |
| Q455 | 8-729-802-71 | TRANSISTOR 2SA1407-D |
| Q456 | 8-729-104-91 | TRANSISTOR 2SA1383 |
| Q457 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q458 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q459 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q460 | 8-729-173-13 | TRANSISTOR 2SB731-F |

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

| Ref.No. | Part No. | Description |
|---------|--------------|---------------------------------|
| Q461 | 8-729-203-45 | TRANSISTOR 2SC3423-0 |
| Q462 | 8-729-104-18 | TRANSISTOR 2SC3514-Q |
| Q463 | 8-729-104-91 | TRANSISTOR 2SA1383-Q |
| Q464 | 8-729-107-53 | TRANSISTOR 2SC2275A-P |
| Q465 | 8-729-190-53 | TRANSISTOR 2SA985A-P |
| Q466 | 8-729-383-73 | TRANSISTOR 2SC2837-Y |
| Q467 | 8-729-383-73 | TRANSISTOR 2SC2837-Y |
| Q468 | 8-729-318-63 | TRANSISTOR 2SA1186-Y |
| Q469 | 8-729-318-63 | TRANSISTOR 2SA1186-Y |
| Q470 | 8-729-108-14 | TRANSISTOR 2SA988-F |
| Q601 | 8-729-173-36 | TRANSISTOR 2SA733-Q |
| Q602 | 8-729-173-36 | TRANSISTOR 2SA733-Q |
| Q603 | 8-729-177-42 | TRANSISTOR 2SD774-3 |
| Q604 | 8-729-194-57 | TRANSISTOR 2SC945-P |
| R101 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R102 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R103 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R104 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R105 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R106 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R107 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R108 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R109 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R110 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R110 | 1-247-739-11 | (AEP,UK,E)...CARBON 100 5% 1/2W |
| R111 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R112 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R113 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R151 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R152 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R153 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R154 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R155 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R156 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R157 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R158 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R159 | 1-247-713-11 | CARBON 1K 5% 1/4W |
| R160 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R160 | 1-247-739-11 | (AEP,UK,E)...CARBON 100 5% 1/2W |
| R161 | 1-246-545-00 | CARBON 1M 5% 1/4W |
| R162 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R163 | 1-247-713-11 | (WG).....CARBON 1K 5% 1/4W |
| R201 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R202 | 1-247-706-11 | CARBON 330 5% 1/4W |
| R203 | 1-247-700-11 | (WG).....CARBON 100 5% 1/4W |
| R203 | 1-247-713-11 | (AEP,UK,E)...CARBON 1K 5% 1/4W |
| R204 | 1-247-516-11 | (WG).....CARBON 33 5% 1/4W |
| R204 | 1-247-700-11 | (AEP,UK,E)...CARBON 100 5% 1/4W |
| R205 | 1-247-128-00 | CARBON 750 5% 1/4W |
| R206 | 1-247-128-00 | CARBON 750 5% 1/4W |
| R207 | 1-247-700-11 | CARBON 100 5% 1/4W |
| R208 | 1-247-708-11 | CARBON 470 5% 1/4W |
| R209 | 1-247-695-11 | CARBON 39 5% 1/4W |
| R210 | 1-247-704-11 | CARBON 220 5% 1/4W |

| Ref.No. | Part No. | Description |
|---------|----------------|---------------------------------|
| R211 | 1-247-721-11 | CARBON 4.7K 5% 1/4W |
| R212 | 1-214-937-00 | CARBON 1M 5% 1/2W |
| R213 | 1-249-844-11 | CARBON 56K 1% 1/2W |
| R215 | 1-249-818-11 | CARBON 4.7K 1% 1/2W |
| R217 | 1-259-501-11 | CARBON 6.8 5% 1/2W |
| R218 | 1-247-739-11 | CARBON 100 5% 1/2W |
| R219 | 1-247-704-11 | CARBON 220 5% 1/4W |
| R220 | 1-247-725-11 | CARBON 10K 5% 1/4W |
| R221 | 1-247-704-11 | CARBON 220 5% 1/4W |
| R222 | 1-247-717-11 | CARBON 2.2K 5% 1/4W |
| R223 | 1-247-723-11 | CARBON 6.8K 5% 1/4W |
| R224 | △ 1-213-086-00 | FUSIBLE 120 5% 1W F |
| R251 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R252 | 1-247-706-11 | CARBON 330 5% 1/4W |
| R253 | 1-247-700-11 | (WG).....CARBON 100 5% 1/4W |
| R253 | 1-247-713-11 | (AEP,UK,E)...CARBON 1K 5% 1/4W |
| R254 | 1-247-516-11 | (WG).....CARBON 33 5% 1/4W |
| R254 | 1-247-700-11 | (AEP,UK,E)...CARBON 100 5% 1/4W |
| R255 | 1-247-128-00 | CARBON 750 5% 1/4W |
| R256 | 1-247-128-00 | CARBON 750 5% 1/4W |
| R257 | 1-247-700-11 | CARBON 100 5% 1/4W |
| R258 | 1-247-708-11 | CARBON 470 5% 1/4W |
| R259 | 1-247-695-11 | CARBON 39 5% 1/4W |
| R260 | 1-247-704-11 | CARBON 220 5% 1/4W |
| R261 | 1-247-721-11 | CARBON 4.7K 5% 1/4W |
| R262 | 1-214-937-00 | CARBON 1M 5% 1/2W |
| R263 | 1-249-844-11 | CARBON 56K 1% 1/2W |
| R265 | 1-249-818-11 | CARBON 4.7K 1% 1/2W |
| R267 | 1-259-501-11 | CARBON 6.8 5% 1/2W |
| R268 | 1-247-739-11 | CARBON 100 5% 1/2W |
| R269 | 1-247-704-11 | CARBON 220 5% 1/4W |
| R270 | 1-247-725-11 | CARBON 10K 5% 1/4W |
| R271 | 1-247-704-11 | CARBON 220 5% 1/4W |
| R272 | 1-247-717-11 | CARBON 2.2K 5% 1/4W |
| R273 | 1-249-577-11 | CARBON 11K 5% 1/4W |
| R274 | △ 1-213-086-00 | FUSIBLE 120 5% 1W F |
| R302 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R303 | 1-247-722-11 | CARBON 5.6K 5% 1/4W |
| R304 | 1-247-722-11 | CARBON 5.6K 5% 1/4W |
| R305 | 1-247-717-11 | CARBON 2.2K 5% 1/4W |
| R306 | 1-249-591-11 | CARBON 43K 5% 1/4W |
| R307 | 1-247-152-00 | CARBON 7.5K 5% 1/4W |
| R308 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R309 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R310 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R311 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R312 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R313 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R314 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R315 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R316 | 1-249-590-11 | CARBON 39K 5% 1/4W |
| R317 | 1-249-469-11 | CARBON 100K 5% 1/4W |
| R318 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R319 | 1-259-502-11 | CARBON 4.7M 5% 1/4W |
| R352 | 1-249-465-11 | CARBON 47K 5% 1/4W |
| R353 | 1-247-722-11 | CARBON 5.6K 5% 1/4W |
| R354 | 1-247-722-11 | CARBON 5.6K 5% 1/4W |

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

| Ref.No. | Part No. | Description | | | | |
|---------|----------------|-----------------------|------|----|------|---|
| R355 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R356 | 1-249-591-11 | CARBON | 43K | 5% | 1/4W | |
| R357 | 1-247-152-00 | CARBON | 7.5K | 5% | 1/4W | |
| R358 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W | |
| R359 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W | |
| R360 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R361 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R362 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R363 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R364 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R365 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R366 | 1-249-590-11 | CARBON | 39K | 5% | 1/4W | |
| R367 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W | |
| R368 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R369 | 1-259-502-11 | CARBON | 4.7M | 5% | 1/4W | |
| R401 | 1-259-503-11 | CARBON | 4.7M | 5% | 1/2W | |
| R402 | 1-247-713-11 | CARBON | 1K | 5% | 1/4W | |
| R403 | 1-247-692-11 | CARBON | 22 | 5% | 1/4W | |
| R404 | 1-247-692-11 | CARBON | 22 | 5% | 1/4W | |
| R405 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R406 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R407 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W | |
| R408 | 1-247-703-11 | CARBON | 180 | 5% | 1/4W | |
| R409 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R410 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W | |
| R412 | △ 1-219-010-11 | FUSIBLE | 33 | 5% | 1/2W | |
| R413 | 1-249-490-11 | CARBON | 27K | 5% | 1/2W | |
| R414 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R415 | 1-246-531-00 | CARBON | 270K | 5% | 1/4W | |
| R416 | 1-247-740-11 | CARBON | 120 | 5% | 1/2W | |
| R417 | 1-249-486-11 | CARBON | 12K | 5% | 1/2W | |
| R418 | 1-247-764-11 | CARBON | 10K | 5% | 1/2W | |
| R419 | 1-259-503-11 | CARBON | 4.7M | 5% | 1/2W | |
| R420 | 1-247-715-11 | CARBON | 1.5K | 5% | 1/4W | |
| R421 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W | |
| R422 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R423 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R424 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W | |
| R425 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W | |
| R426 | △ 1-212-998-00 | FUSIBLE | 470 | 5% | 1/2W | F |
| R427 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R428 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R429 | △ 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| R430 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R431 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R432 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R433 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R434 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R435 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R436 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R437 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R438 | △ 1-247-692-11 | CARBON | 22 | 5% | 1/4W | F |
| R439 | △ 1-247-692-11 | CARBON | 22 | 5% | 1/4W | F |
| R440 | △ 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R441 | 1-249-460-11 | CARBON | 15K | 5% | 1/4W | |
| R442 | △ 1-219-002-11 | FUSIBLE | 15 | 5% | 1/2W | |
| R443 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W | |

| Ref.No. | Part No. | Description | | | | |
|---------|----------------|-----------------------|------|----|------|---|
| R444 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R445 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R446 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W | |
| R447 | 1-249-478-11 | CARBON | 2.2 | 5% | 1/2W | |
| R448 | 1-249-478-11 | CARBON | 2.2 | 5% | 1/2W | |
| R449 | △ 1-219-002-11 | FUSIBLE | 15 | 5% | 1/2W | |
| R450 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W | |
| R451 | 1-259-503-11 | CARBON | 4.7M | 5% | 1/2W | |
| R452 | 1-247-713-11 | CARBON | 1K | 5% | 1/4W | |
| R453 | 1-247-692-11 | CARBON | 22 | 5% | 1/4W | |
| R454 | 1-247-692-11 | CARBON | 22 | 5% | 1/4W | |
| R455 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R456 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R457 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W | |
| R458 | 1-247-703-11 | CARBON | 180 | 5% | 1/4W | |
| R459 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R460 | 1-246-545-00 | CARBON | 1M | 5% | 1/4W | |
| R462 | △ 1-219-010-11 | FUSIBLE | 33 | 5% | 1/2W | |
| R463 | 1-249-490-11 | CARBON | 27K | 5% | 1/2W | |
| R464 | 1-247-704-11 | CARBON | 220 | 5% | 1/4W | |
| R465 | 1-246-531-00 | CARBON | 270K | 5% | 1/4W | |
| R466 | 1-247-740-11 | CARBON | 120 | 5% | 1/2W | |
| R467 | 1-249-486-11 | CARBON | 12K | 5% | 1/2W | |
| R468 | 1-247-764-11 | CARBON | 10K | 5% | 1/2W | |
| R469 | 1-259-503-11 | CARBON | 4.7M | 5% | 1/2W | |
| R470 | 1-247-715-11 | CARBON | 1.5K | 5% | 1/4W | |
| R471 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W | |
| R472 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R473 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R474 | 1-247-718-11 | CARBON | 2.7K | 5% | 1/4W | |
| R475 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W | |
| R476 | △ 1-212-998-00 | FUSIBLE | 470 | 5% | 1/2W | F |
| R477 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R478 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R479 | △ 1-212-982-00 | FUSIBLE | 100 | 5% | 1/2W | F |
| R480 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R481 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R482 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R483 | △ 1-217-997-11 | FUSIBLE | 10 | 5% | 1/2W | |
| R484 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R485 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R486 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R487 | △ 1-217-151-00 | RES, METAL PLATE 0.22 | | | | |
| R488 | △ 1-247-692-11 | CARBON | 22 | 5% | 1/4W | F |
| R489 | △ 1-247-692-11 | CARBON | 22 | 5% | 1/4W | F |
| R490 | △ 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R491 | 1-249-460-11 | CARBON | 15K | 5% | 1/4W | |
| R492 | △ 1-219-002-11 | FUSIBLE | 15 | 5% | 1/2W | |
| R493 | 1-247-727-11 | CARBON | 10 | 5% | 1/2W | |
| R494 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R495 | △ 1-219-022-11 | FUSIBLE | 100 | 5% | 1/2W | |
| R496 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W | |
| R497 | 1-249-478-11 | CARBON | 2.2 | 5% | 1/2W | |
| R498 | 1-249-478-11 | CARBON | 2.2 | 5% | 1/2W | |
| R499 | △ 1-219-002-11 | FUSIBLE | 15 | 5% | 1/2W | |
| R500 | 1-247-752-11 | CARBON | 1K | 5% | 1/2W | |
| R501 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W | |

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

| Ref.No. | Part No. | Description | | | | |
|---------|----------------|------------------|------------------------|----|------|---|
| R502 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W | |
| R551 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W | |
| R552 | 1-249-469-11 | CARBON | 100K | 5% | 1/4W | |
| R601 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R602 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W | |
| R603 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | |
| R604 | 1-249-461-11 | CARBON | 18K | 5% | 1/4W | |
| R605 | 1-246-530-00 | CARBON | 240K | 5% | 1/4W | |
| R606 | 1-247-725-11 | CARBON | 10K | 5% | 1/4W | |
| R607 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R608 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W | |
| R609 | 1-249-465-11 | CARBON | 47K | 5% | 1/4W | |
| R610 | 1-249-462-11 | CARBON | 22K | 5% | 1/4W | |
| R611 | 1-247-750-11 | CARBON | 680 | 5% | 1/2W | |
| R612 | 1-247-717-11 | CARBON | 2.2K | 5% | 1/4W | |
| R613 | 1-247-754-11 | CARBON | 1.5K | 5% | 1/2W | |
| R614 | 1-247-754-11 | CARBON | 1.5K | 5% | 1/2W | |
| R616 | 1-247-693-11 | CARBON | 27 | 5% | 1/4W | |
| R617 | △ 1-249-489-11 | CARBON | 22K | 5% | 1/2W | F |
| R618 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R619 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R620 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R621 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R622 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R623 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R624 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R625 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R626 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R627 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R628 | 1-247-749-11 | CARBON | 560 | 5% | 1/2W | |
| R630 | 1-247-727-11 | (WG)...CARBON | 10 | 5% | 1/2W | |
| R631 | 1-247-255-00 | CARBON | 4.3K | 5% | 1/2W | |
| R632 | 1-247-255-00 | CARBON | 4.3K | 5% | 1/2W | |
| R633A | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W | |
| R633 | 1-247-739-11 | CARBON | 100 | 5% | 1/2W | |
| R650 | 1-247-138-00 | CARBON | 2K | 5% | 1/4W | |
| R651 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W | |
| R652 | 1-247-721-11 | CARBON | 4.7K | 5% | 1/4W | |
| R653 | △ 1-212-934-00 | FUSIBLE | 1 | 5% | 1/2W | F |
| R680 | 1-247-727-11 | (WG)...CARBON | 10 | 5% | 1/2W | |
| R681 | 1-247-255-00 | CARBON | 4.3K | 5% | 1/2W | |
| R682 | 1-247-255-00 | CARBON | 4.3K | 5% | 1/2W | |
| R683 | 1-247-739-11 | CARBON | 100 | 5% | 1/2W | |
| R701 | △ 1-213-086-00 | FUSIBLE | 120 | 5% | 1W | F |
| R751 | △ 1-213-086-00 | FUSIBLE | 120 | 5% | 1W | F |
| RT401 | 1-237-873-11 | RES, ADJ, CARBON | 100 | | | |
| RT402 | 1-237-455-11 | RES, ADJ, CARBON | 500 | | | |
| RT451 | 1-237-873-11 | RES, ADJ, CARBON | 100 | | | |
| RT452 | 1-237-455-11 | RES, ADJ, CARBON | 500 | | | |
| RV301 | 1-238-416-11 | RES, VAR, CARBON | 150K/150K (BALANCE) | | | |
| RV302 | 1-238-418-11 | RES, VAR, CAOBN | 250K/250K (TREBLE) | | | |
| RV303 | 1-238-417-11 | RES, VAR, CARBON | 25K/500K (BASS) | | | |
| RV304 | 1-237-175-11 | RES, VAR, CARBON | 120K/120K (ATTENUATOR) | | | |
| RY601 | 1-515-614-11 | RELAY | | | | |
| RY602 | 1-515-356-00 | RELAY | | | | |
| RY603 | 1-515-356-00 | RELAY | | | | |

| Ref.No. | Part No. | Description |
|---------|----------------|---|
| S101 | 1-554-879-11 | SWITCH, SLIDE (INPUT SELECTOR) |
| S102 | 1-570-593-11 | SWITCH, SLIDE (REMOTE TYPE) (INPUT SELECTOR) |
| S103 | 1-570-076-11 | SWITCH, SLIDE (REMOTE TYPE) (REC OUT SELECTOR) |
| S201 | 1-554-019-21 | SWITCH, SLIDE (REMOTE TYPE) (CARTRIDGE LOAD) |
| S301 | 1-571-773-11 | SWITCH, PUSH (2 KEY)(MUTING -20dB) |
| S302 | 1-571-773-11 | SWITCH, PUSH (2 KEY)(SUBSONIC) |
| S303 | 1-571-772-11 | SWITCH, PUSH (3 KEY)(TONE) |
| S304 | 1-571-774-11 | SWITCH, PUSH (1 KEY)(SOURCE DIRECT) |
| S305 | 1-571-772-11 | SWITCH, PUSH (3 KEY)(TURNOVER) |
| S306 | 1-571-772-11 | SWITCH, PUSH (3 KEY)(TURNOVER) |
| S501 | 1-571-775-11 | SWITCH, ROTARY (MODE) |
| S601 | 1-571-776-11 | SWITCH, ROTARY (SPEAKERS) |
| S801 | △ 1-554-538-00 | SWITCH, PUSH (AC POWER)(1 KEY) |
| T1 | △ 1-449-652-11 | (AEP)...TRANSFORMER, POWER |
| T1 | △ 1-449-653-11 | (WG)...TRANSFORMER, POWER |
| T1 | △ 1-449-654-11 | (E)...TRANSFORMER, POWER |
| T1 | △ 1-449-655-11 | (UK)...TRANSFORMER, POWER |
| TM801 | 1-536-767-41 | TERMINAL BOARD, SPEAKER (SPEAKER A) |
| TM802 | 1-536-767-41 | TERMINAL BOARD, SPEAKER (SPEAKER B) |
| VS801 | △ 1-526-576-51 | (E)...SELECTOR, POWER VOLTAGE |

ACCESSORY & PACKING MATERIAL

| | |
|---------------|--------------------------------|
| 3-786-976-11 | (UK,E)....MANUAL, INSTRUCTION |
| 3-786-976-41 | (AEP,WG)...MANUAL, INSTRUCTION |
| 4-847-802-00 | (EXCEPT UK)...SCREW |
| 4-915-880-01 | SHEET, PROTECTION |
| *4-923-840-01 | (E).....INDIVIDUAL CARTON |
| *4-923-840-11 | (AEP,WG)...INDIVIDUAL CARTON |
| *4-929-262-01 | (UK).....INDIVIDUAL CARTON |
| *4-923-860-01 | (AEP,WG,E)...CUSHION |
| *4-929-219-11 | (UK).....CUSHION |

Note: The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.